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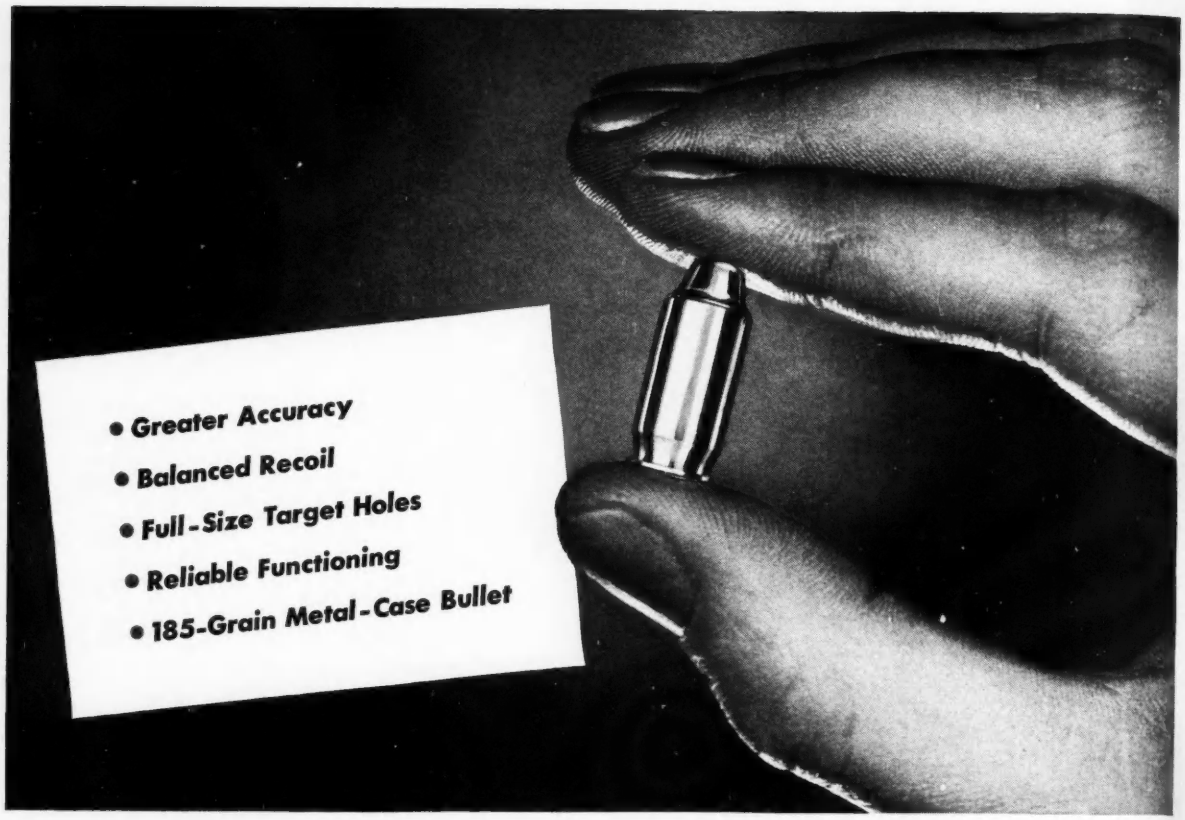

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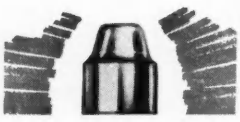

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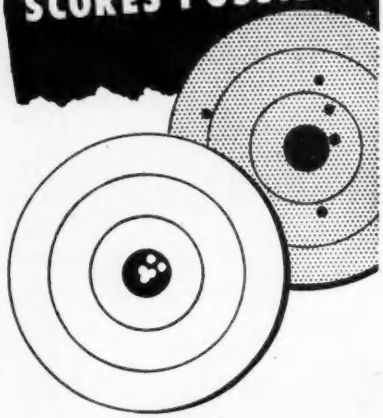

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COVER

This month's cover of a black bear was made from a 35 mm. Kodachrome taken in Wyoming, on the edge of Yellowstone, by William Rehm. The shot was made with a Leica camera, fitted with F.2 Summitar 50 mm. lens, at an exposure of 1/30 second at f.3.2.

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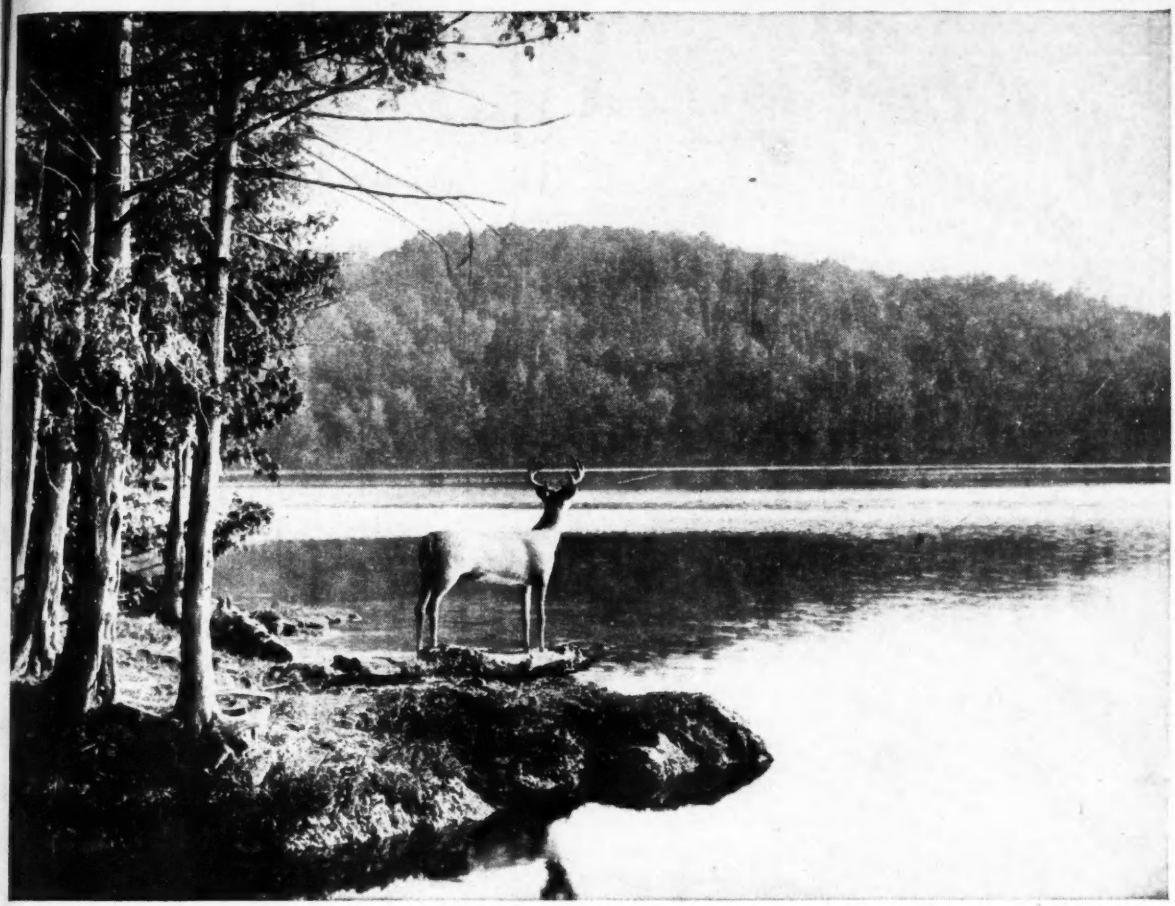

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InCidenTa/Ly

CONTRARY to the opinion you may have gained by listening to his critics, Elmer Keith is a modest fellow. When he learned that we would announce in this issue his joining the RIFLEMAN staff, he straightaway sent a plea for no fireworks. "Please," said Elmer, "make it brief and no build-up. Tell them I am just a knothead if you wish. Never cared a whoop about publicity. . . . Have always been and expect to stay just plain Elmer Keith. Would . . . rather be underestimated than overestimated." We had already found that fire-eatin' Elmer was actually a soft-spoken and mild-mannered Westerner who, once in Washington, wanted only to get back to his home in Idaho in order to escape the perils of big-city traffic! We liked him at once, and were impressed with his knowledge and the self-effacing way in which he offered it. He's quite a guy, and we're glad to have him with us.

Despite Elmer's feeling about 'build-up' we think RIFLEMAN readers will want a few vital statistics on the man whose name will take its place alongside those of RIFLEMAN technical experts Hatcher, Barr, and Waite.

Elmer Keith was born in Hardin, Montana, in 1899. His family moved to Helena, Montana, in 1905, and there Keith was raised. Says Keith, "I packed for the Forest Service for four years; punched cows the rest of my early life. Ran cattle for some time in Montana, Idaho, and Oregon; sold out of the cow business in 1929, ranch, horses, and all.

"Guided each fall since I was a youngster. Have hunted in Montana, Idaho, Oregon, Mexico, four months in northern British Columbia, and put in two months in Southeastern Alaska with Arthur H. Kinnan. Also put in two months on the Alaska peninsula for brown bear." Before the target shooters yell, Keith fired at Camp Perry with three state teams, and ran up a record that requires no head-hanging. For twenty-five years Keith has written on guns and gunning. In addition to his magazine work (the first of which appeared twenty-five years ago in the RIFLEMAN), Keith has written four books, and is now at work on a fifth—subject as yet unannounced. During the last war Elmer was at Ogden Arsenal, Utah, where he was in charge of final inspection and proof firing of small arms.

Primarily, Elmer Keith is a big-game hunter. It is as a big-game hunter that he takes his place on the RIFLEMAN staff. Keith has lived in game country all of his life. He has killed 130 big-game animals for his own use . . . everything in North America except Arctic game and jaguar. To make that record even more impressive, as guide and hunting partner, Keith has been in at the death of something like 700 big-game animals. With a record like that, we feel that while Keith's statements on big-game hunting may not be 'the last word', they are certainly worth listening to.

At the start we expect letters of protest from a certain number of readers . . . which we will patiently file with those from RIFLEMAN readers of the opposite persuasion. It's a funny thing. No one is lukewarm about Keith and his ideas. They are either liked or equally disliked. For ourselves, we expect sometimes to agree with Keith, and as often to disagree . . . as is already the case with the rest of our technical staff. Frankly, we're in favor of a little healthy controversy . . . and if Elmer can provide it, let 'er fly!

And by the way, we're *not* moving Elmer Keith to Washington. For one thing, he wouldn't come on a bet. Secondly, we think that Keith can do far more for RIFLEMAN readers right there in Idaho than he possibly could here in the East. The RIFLEMAN needs the influence and the impact of a Westerner. Unless we miss our guess, we'll get it from Elmer!

JS

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.30-40 KRAG

New Cassel, Westbury, N. Y.

Editor:

Your description of loads for .30-40 Krag rifle in the February issue was complete and informative. Regarding non-availability of weapons for the superb .30-40 cartridge, I believe Winchester would have been better advised, in 1936, to continue the model 1895 rifle in this caliber rather than to revive the obsolete black powder .33 WCF in caliber .348 (rifle model 71).

LEO TOCH

WHY SECOND BEST?

Syracuse 10, N. Y.

Editor:

"Wanted: A .275 Magnum" . . .

. . . I feel that Mr. Simmons missed the proverbial boat in specifying the .275 Magnum as the desired item. . . . The .280 Dubiel Magnum stands head and shoulders above any load in this field (with the possible exception of the restricted .285 OKH Duplex load), and many competent authorities designate the .280 Dubiel as the closest approach to the ideal long-range cartridge considering present powders and ignition methods. Why choose a second best?

R. SCOTT WITHERS

WOODS AND GLUES

South Egremont, Mass.

Editor:

Himes' method of determining moisture content is not quite correct, even though I use it myself. I have checked the method against the correct vacuum method and found an error from 1.3 percent to 5.6 percent moisture content. Using the heating method, alcohols and such are driven off, as well as water, by the excess of heat. The error was greater on green wood than on seasoned wood.

As to gluing . . . I use URAC 185 and that to the best of my knowledge is the very best. In preparing the glue joint, as well as in preparing wood for finishing, one wetting and use of wet or dry sandpaper until dry gives a smoother surface than half-a-dozen wettings to raise the grain and sandings when dry.

I have heard that pear wood is used for engineering instruments because it does not warp or change size, though I have never tested any. If so, it should be almost as good for stocks as laminated walnut.

RUSSELL G. WILCOX

NECK SHOT

Whipple, Arizona

Editor:

I have always thought of THE AMERICAN RIFLEMAN as a sportsman's magazine until I read the article by W. D. M. Bell in the January issue. Mr. Bell tells in detail how he killed a stag while the stag was lying in bed. Further on, Mr. Bell tells about killing a stag during the height of the rutting season. None of this sounds sporting to me.

ARTHUR F. HYDE

● *Theoretically, there is no wild game in the British Isles; all game belongs to the man on whose land it is found. The landowner controls the hunting of that game, and he can dispose of it when and how he sees fit.*—ED.

Ames, Iowa

Editor:

I was greatly interested in "The Neck Shot" by W. D. M. Bell in the January 1950 issue. He asks the question about animals moving about after shot in the head, but not moving after a clean neck shot.

The brain stem, which connects the brain and the spinal cord, contains many of the special reflex centers which control breathing, heart beat, etc. This part of the central nervous system is absolutely essential for life. Hence, when an animal is hit in the neck, and the brain stem, or the nerve trunks in the spinal cord are destroyed, the animal dies immediately. Animals have been known to run remarkable distances after the brain has been destroyed. . . .

The heart itself is known as an automatic organ, in that it continues to beat after all nerves to it have been severed. Hence, many times after an animal has been hit, the heart continues to beat. However, as the breathing centers have been destroyed, the animal fails to get any oxygen, and the heart stops beating because of lack of oxygen.

L. C. PAYNE

UNUSUAL POSITIONS

New York, N. Y.

Editor:

On page 47 (January), in the article "Armchair Shooter", mention is made of the fact that Jack Brand asked the NRA if targets fired from a wheelchair were acceptable for credit on his Distinguished award, and the NRA said yes.

Can I, with an artificial leg, shoot in registered matches? My kneeling position is a bit unusual.

SONNY OURISMAN

● *Yes, but you must get certification to show that the position is approved by the NRA when anyone challenges your use of it. Send the NRA, in duplicate, a request for approval of your unorthodox position, together with two photographs of the position. The Challenge and Protest Committee of the NRA will act upon your request and if approved send you authorization to use the position in competition.*—ED.

ARGENTINE MATCHES

St. Paul, Minnesota

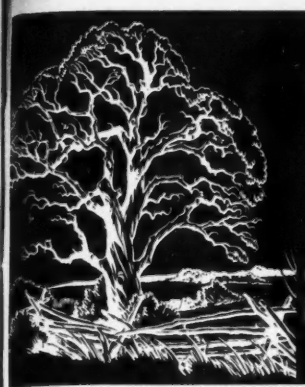
Editor:

I have just read "The Buenos Aires Matches" in the January issue and there are three items that should either be corrected or added to the story.

The rifles that Sandager and Westergaard used were not Swedish rifles. They were made in Denmark by Schultz and Larsen. The one used by Mr. Sandager was imported for him by myself. Five additional rifles were also forwarded direct to Buenos Aires but did not arrive in time for the matches.

Your short paragraph regarding Doc Swanson was interesting but you left out a very important detail. If you add up all the scores fired by Swanie, you will find that his was the highest aggregate (for the same courses of fire) of all the riflemen on the American team. He can always be counted on to support a team.

An instance of good sporstmanship between the teams should be mentioned. The Norma factory in Sweden and the Swedish



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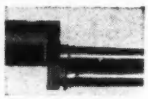
Action is the word for the Stevens "620" pump gun. Action that's so fast, so smooth, so unfailing that you'll own it with pride and shoot it with confidence in the duckblind or in the field . . . Here's one of the original and *best* slide action, takedown, repeating shotgun designs. It's been *proved* and *improved* for 30 years. Now, thoroughly modernized, the 1950 Model is a better gun, a better value than ever. See the Stevens "620" at your dealer's . . . check its fine gun features . . . note its *low price*. Write for free catalog.

SAVAGE ARMS CORPORATION
Firearms Division, Chicopee Falls, Mass.

Breech block travels *straight* back in easy, smooth motion. Action has few working parts for fast operation, durability.

Positive lock-up . . . hammerless action, with all moving parts enclosed in solid breech . . . independent, push button safety.



Easy, positive takedown always tight—can't shake loose, but won't stick.

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SAVAGE · WORCESTER *Power and Hand Lawn Mowers*

Bullet holes at 200 yards?

"Spot them with an ARGUS Spotting Scope", says Al Freeland, proprietor of one of the best known Gun shops in the middle west

"If you want to spot your bullet-holes at 200 yards—get yourself an Argus spotting scope." That's the advice of Al Freeland—gun and scope expert, whose gun and sport shop in Rock Island, Illinois is well known to riflemen everywhere. "This super grade Argus scope, tested and used by the Armed Forces, meets the most exacting requirements of shooters from coast to coast." • Look through this high quality scope yourself the next time you visit your favorite gun shop and check off these range-proven advantages:

1. *Full 20X magnification* • **2.** *Superb image brightness—wide field of view* • **3.** *Quick, easy focusing* • **4.** *Comfortable eye-piece, allows full use of either glasses or goggles.* **5.** *Lightweight (32 oz.) easy to pack (14" long).*

FREE: Folder listing performance specifications of Argus Spotting Scopes. Write:

• **ARGUS, INCORPORATED • ANN ARBOR, MICH.**

team donated and transported without charge for Mr. Sandager's use 1,000 rounds of 6.5-mm. Swedish ammunition. Sometime perhaps an American team might indirectly reciprocate by doing a similar favor for someone else.

FRED W. HALLBERG

LICENSES

Salem, N. J.

Editor:

If a license to operate an automobile, given to a citizen of the state where he resides, is valid and honored in other states, why is not a permit to carry a pistol, similarly issued, not so honored? Certainly many more persons are killed or injured by cars than by pistols.

FORRESTER H. SCOTT

ARE WE MEN?

Superior, Arizona

Editor:

Mr. Mann, in "Rifle for the Southwest" (January) makes the choice of a gun for himself quite a problem. All the talk about recoil and muzzle blast is a lot of nonsense. If you shoot enough, you do not notice those things. It has gotten so that every new shooter—if he has ever read a copy of the RIFLEMAN—shoots a gun with all the dread and fear of a girl having her first baby who has heard all the 'well-meaning' advice of the neighborhood women.

JIM SELLERS

CUSTOM PISTOLS

Aberdeen, Washington

Editor:

I have been very busy for the past year working on a pistol book. . . . It is nearing completion at this time and I would like to arrange for a small request notice to be run asking for: Photos or line drawings of any special custom pistol work of any type; accessories or gadgets used by the pistol shooter; worked-over undercover guns; special sights; handgun grips, etc. The names and addresses of gunsmiths specializing in pistol work are also desired.

I want all the special custom gun work ideas I can possibly get, as I have gone in for that quite heavy in order to give readers something different and up to date.

DICK SIMMONS

WHAT PRICE GLORY?

Dallas, Texas

Editor:

This is a true story.

Time: Saturday, January 7.

Place: Thurman Randle's sporting goods store in Dallas.

A small boy approached the south show window and commenced to closely inspect some 40 trophies, about 700 medals, plus a world record target (Swiss Match). After about five minutes he walked into the store and addressed Thurman Randle:

Small boy: "Whose medals are those?"

Randle: "They are mine".

Small boy: "Didja win 'em shootin' a gun?"

Randle: "Sure did".

Small boy: "Sure is a lot of 'em".

Randle: "Yes, it took a lot of shooting and a lot of time to get them together".

Small boy (again looking at the medals and then back at Randle): "Are they Civil War medals, mister?"

DAN W. BUNCH

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Tool as Shown
$47.50

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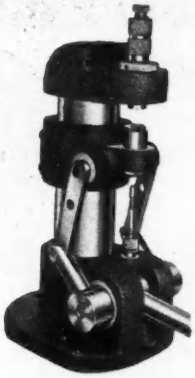

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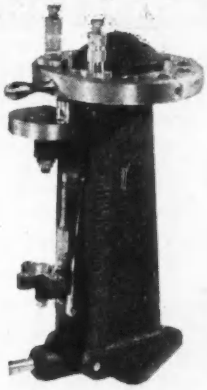

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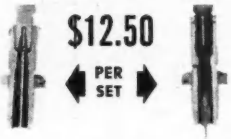

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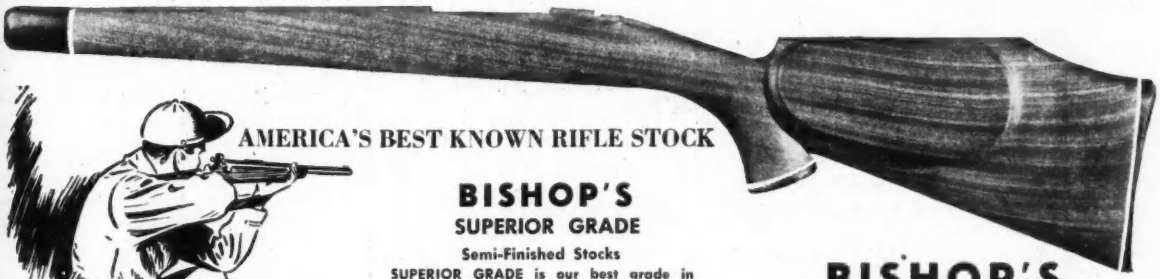

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Same as Superior grade except walnut is not of quality grain. Big bargain for those not demanding a stock of fine superior grain walnut.

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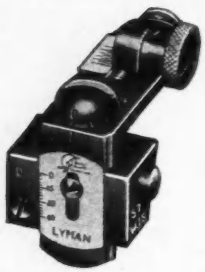
Lyman 57 Sights are precision micrometer receiver sights in the popular price field for well-known target and hunting rifles. These accurate sights have ¼ min. clicks for both elevation and windage, and a quick-release slide. Available either with large target knobs or coin-slotted Stayset Knobs for hunting. No stock cut necessary. Send for free 57 folder.



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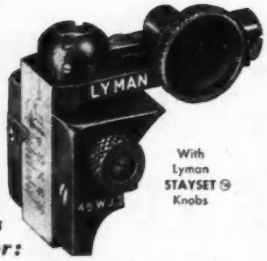
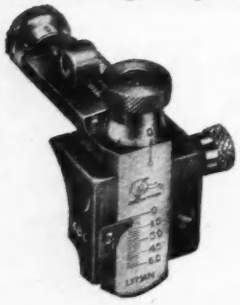


With Lyman STAYSET Knobs



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RIFLEMAN WORDS • • • •

A lexicon for shooters which defines words and terms appearing in articles more fully than is possible by their use in text.

BALLISTIC DRIFT—A deviation to right or left of the line of trajectory of a bullet in flight which is due to the processional rotation of the nose around the curve of the trajectory. The rotation can be compared to the small circles which a top makes around the point on which it has been spinning as it loses gyroscopic stability.

BATTERY CUP—A small metal cup in the head of a cartridge case or shot shell, with open end to the rear, in which the primer is seated.

BOLT FACE—The front end of the bolt against which the head of the cartridge rests when it is loaded in the chamber of a bolt-action weapon and the bolt closed.

CASE TAPER—The gentle slope from head to neck of a cartridge case whose sides are not parallel.

CHAMBER—That portion of the rear end of a firearm barrel which is reamed to seat the full-length cartridge. In the chamber, with breech face closed over the head, the cartridge is ready to fire.

DOUBLE ACTION—A type of revolver action in which the hammer is cocked and the gun is fired solely by the pull of the trigger.

DROP—The distance between the top of the butt of a gunstock and the rearward extension of a line drawn to coincide with the top of the barrel.

HOLLOW-POINT BULLET—A bullet with a cavity in the nose to increase the expansion which occurs when it strikes a game animal.

LAND—The spiral ridges in the bore of a rifled arm which bite into a bullet as it moves toward the muzzle and cause the bullet to spin around its long axis.

MOUNT RING—A ring to hold a rifle telescope on a fixed base and aid in maintaining a constant zero.

NECK—That portion of a bottle-shaped cartridge case of reduced diameter which grips the bullet and holds it in the case.

NECKING DOWN—The process of reducing the diameter of a case neck, such as is necessary to utilize .30-'06 brass in making up 7-mm. cartridges.

RIMLESS CARTRIDGE—A cartridge with an extraction groove around the circumference of the head. The case head is of the same diameter as the body, with no rim projecting from it.

SHOULDER—The sharp curve of a bottleneck cartridge case where the case is reduced in diameter.

WIND DOPING—Estimating the effect of the wind, light, and mirage, and making the sight corrections required to place the bullet in the bullseye of the target.

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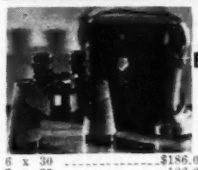

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2¼ x 3¼ Graflex, latest model f4.5 coated lens, like new **89.50**

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NATIONAL CAMERA EXCHANGE

86 SOUTH SIXTH STREET — **MINNEAPOLIS 2, MINNESOTA**

Green Light Ahead . . .

Driving down the broad, well-paved reaches of Pennsylvania Avenue toward the Capitol, with a murky sky overhead, I thought of the inaugural processions which from the time of Jefferson had introduced successive Presidents of the United States to the peoples of the world. The red bullseye of a traffic light gave a moment's rest from the task of dodging crowding automobiles on either side and I thought of the comparative peace and quiet of bygone years when the deep mud on a rainy day slowed to a walk the horse-drawn vehicles making their way between the Treasury and the Capitol. Before the green light again loosed the maelstrom of traffic, I found time to wonder which was to be preferred, the muddy streets and clear thinking of the days of Jefferson, or the well-paved streets and the muddied thinking in the Washington and other world capitals of today. Have the blinking of traffic lights and the glitter of chrome-trimmed automobiles blinded us to some of the simple truths of government which men have discovered, forgotten and re-discovered, only to forget again in a discouraging cycle through the ages?

Twenty-four centuries ago, Confucius wrote:

"Exalt the straight, set aside the crooked, the people will be loyal. Exalt the crooked, set aside the straight, the people will be disloyal."

Twenty centuries later Gustavus, King of Sweden, restated the truism for Europeans: "It is the fault of the rulers if the governed do not obey."

Two centuries later, Thomas Payne's blazing pen inspired the renaissance of democracy which resulted in the American Revolution. Having fanned the near-dead embers into living coals, he warned against their being quenched again with the phrase too often disregarded today: "Those who expect to reap the blessings of freedom must, like men, undergo the fatigue of supporting it."

Another century, and with mud still deep on most of the streets of the capital, came the clear voice of Walt Whitman:

"There is no week nor day nor hour when tyranny may not enter upon this country, if the people lose their supreme confidence in themselves—and lose their roughness and spirit of defiance—Tyranny may always enter—there is no charm, no bar against it—the only bar against it is a large resolute breed of men."

Came another century, and a sage from New England in the White House on Pennsylvania Avenue. Said Calvin Coolidge a quarter of a century ago:

"One of the chief errors of the present day is relying too much on the government and too little on our own efforts and on the people themselves. This comes to pass by supposing that, when there is something which ought to be done, we can avoid all personal responsibility by a simple ordinance requiring that hereafter it shall be done by the government. We cannot divest ourselves of our burdens and responsibilities by any such easy method. Where the people themselves are the government, it needs no argument to demonstrate that what the people cannot do, their government cannot do."

Then, in unconscious confirmation of the advice which had been given free men and forgotten by them through the ages, came the sardonic comment of Joseph Goebbels as the Nazi legions began their march over Europe:

"We availed ourselves of the instrumentalities of democracy to put democracy out of business."

It is a phrase and a policy whole-heartedly adopted by the followers of Stalin, one-time ally of Hitler.

We have cleared up our muddy streets in America. We will be wise to clear up our muddy thinking so that we can take advantage of the green light for real democracy to continue moving ahead.

C. B. Lister

Below, A. O. Niedner in his uniform as a policeman in Milwaukee, Wis. At left, a diploma awarded Niedner for shooting the best score in a 100-shot match in 1898

MEMORIES OF SCHUETZEN DAYS

By ADOLPH O. NIEDNER* as told to John J. Barsotti

YOU ASKED ME about the Schuetzen days. I'll try to tell you some of the things I saw in those days, as well as a little bit about the Schuetzen men and myself and the shooting that we did so long ago.

When I speak of Schuetzen style I mean offhand shooting with the heavy single-shot rifles made with a palm rest especially for that kind of target work. We shot on the German Ring target, the Honor, the King, and the Man targets, and on the Illinois and the old Sharpshooters point target. They were different from present-day targets and I will tell you more about them later on. I must tell you about the German Ring target because it is one we used a lot. It was a 200-yard target and a hard one to hit. The black was twelve inches across with a 1½-inch center and the distance between rings was ¾ of an inch. The center scored 25, the next ring 24, and so on down to the outside ring which counted fifteen. It took a good shot and a good rifle to shoot scores of 220 or above out of a possible 250 on that target. We also fired three-shot matches on this target.

When I started shooting with the Milwaukee Sharpshooters after I was discharged from the Army in '85, the shooters in that club were using percussion muzzleloading rifles. These rifles were made on the Schuetzen pattern with a Swiss buttplate and a palm rest. All of them had globe and peep sights. They were heavy false-muzzle rifles weighing from twelve or fourteen up to twenty pounds and shot a linen-patched 'sugar' loaf or picket-type bullet.

The first range of the Milwaukee Sharpshooters was on Third Street. It was outside of the city when the club started up but the city grew around it and, since now and then a stray bullet would leave the range, we had to look for somewhere else to shoot. I was on the committee detailed to look for a new range site and we found a place at Wauwatosa, alongside of the Gettleman Brewery. This made a fine range and it was easy to get a keg of beer on shooting days. They had a special gate built in the fence around the brewery so we could roll a keg over to the range. I don't recall ever attend-

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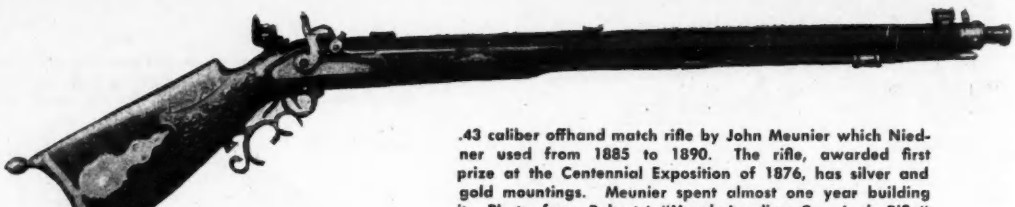
* *Now in the eighty-third year of a varied and colorful life, A. O. Niedner of Dowagiac, Michigan, has amassed a wealth of memories, few of which have ever been set down in print. He has long been well known as a barrelmaker and a custom gunsmith, and he is one of the last of the old-time Schuetzen riflemen. This article was written with the idea of acquainting present-day riflemen with some of Niedner's personal memories of those long vanished days. For kind assistance in the collection of certain pertinent data which went into the making of this sketch, I wish to thank Guy Burch of Macedonia, Illinois.*—JOHN BARSOTTI.



.43 caliber offhand match rifle by John Meunier which Niedner used from 1885 to 1890. The rifle, awarded first prize at the Centennial Exposition of 1876, has silver and gold mountings. Meunier spent almost one year building it. Photo from Roberts' "Muzzle-Loading Cap Lock Rifle"

ing a Schuetzen shoot that didn't have a bar and plenty of cold beer. The last range the Sharpshooters had was at Hales Corners. It was a good range and there was a picnic park there too. I shot on all three of these.

Old John Meunier was a member of the Milwaukee Sharpshooters Club and a famous riflemaker. I used to hang out in his shop a lot when I was off duty from the police force. He had a beautiful rifle which he had made especially to display at the Centennial Exposition of 1876. It was a pet of his, a twenty-one pound .43-caliber percussion Schuetzen rifle. The lockplate and other metal trimmings were highly engraved, and the stock was carved in the German manner with a detailed relief design. It was a work of art as well as a fine shooting rifle. After Meunier and I became good friends I persuaded him to sell that rifle to me. It was one of the rifles I loved best of all that I ever owned and I shot it on the Milwaukee range for a long time. This Meunier rifle had a wonderful set-trigger. I would let the nail on my first finger grow out long and when I was shooting the Meunier gun I'd touch the set-trigger off with the tip of that long, pointed fingernail. This set-trigger was so finely made and so complicated I used to make a sketch of it everytime I took it apart, so I'd be sure to get it back together the right way.

One of the best scores I ever shot with the Meunier rifle on the German Ring target at 200 yards was a 227 out of 250 for ten shots.

After the breechloading rifles became popular in the Milwaukee Sharpshooters club the gun rack in the club room was full of muzzleloading Schuetzen rifles that no one used any more. There must have been forty rifles standing there. It was a devil of a job to go over that rack of guns every month or so and dust them off and oil them.

In the nineties the shooters in our club began to use the Ballard, Stevens, Remington, Winchester, and other single-shot breechloading Schuetzen rifles. I owned the first to be used on the Milwaukee Sharpshooters range, a .38-55 Winchester. Later I got a Stevens Schuetzen rifle. At first I had trouble with the mainspring breaking in this rifle but John Meunier and I wrote the Stevens Company and suggested an improved mainspring, which they later brought out. This did away with much of the trouble they had with the early models.

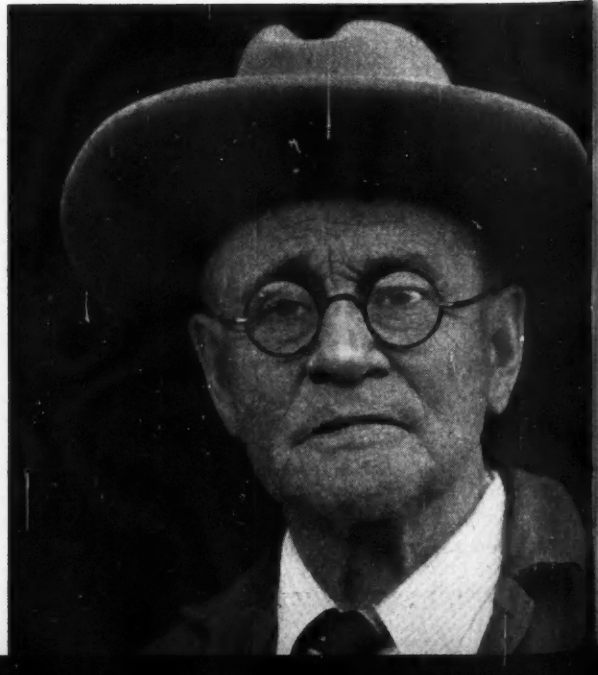
Not long afterward I got a sixteen-pound Ballard rifle, double set-triggers, .32-40 caliber, and shot many fine scores and won many matches with it. For target shooting the Ballard action was hard to beat. After I got into professional gun work, I made many special barrels and put them on these actions for target shooters. Some wonderful shooting was done with the single-shot Schuetzen rifles using globe and peep sights and later with telescope sights. It was after 1905 that telescope sights were admitted to the Schuetzen matches. On the Milwaukee ranges all of our shooting was done with globe and peep sights.

There were a number of accurate cartridges in different calibers that were favorites with the shooters in those days. I favored the .32-40 myself because of its accuracy and light recoil, but some men preferred the .38-55. It was an accurate cartridge, too, but in the long run the recoil was too much. Some men couldn't fire 100 to 150 shots in an afternoon without getting a black and blue shoulder from the kick of the .38-55.

We used the regular brass cases and the nickle-plated Everlasting cases, made of brass or steel, which were heavier and longer-lasting than the regular cases. The lead bullets we shot in our breechloaders were either paper-patched or grooved and lubricated. With the breech-muzzle loader, which had a false muzzle, the bullet was seated down the barrel just as in a percussion target rifle and a loaded case inserted behind it in the breech. It was a very accurate type of rifle but the method of loading seemed slow to me. I favored the breech-seating method where a special tool was used to seat the bullet into the rifling from the breech ahead of the primed, charged case. When we used black powder altogether it was necessary to wipe the bore clean after every ten shots or it would foul up. Later we used a priming charge of three or four grains of DuPont No. 1 in a case full of Kentucky black powder, Hazards I believe it was, and it burned very clean. We used wads on top of the powder. Some shooters used blotting paper and some wax wads. I used one made from thin paper and sometimes didn't use any. Ed Leopold, a fine rifle shot I knew in the East, after I moved back to Malden, used a special oleo wax wad he made himself.

I have a little curved copper tube fitted with a cup-like mouthpiece, a souvenir of my Schuetzen days. I used to blow a pinch of powdered graphite through the bore of my rifle with this tube before I started a string of shots with the .22

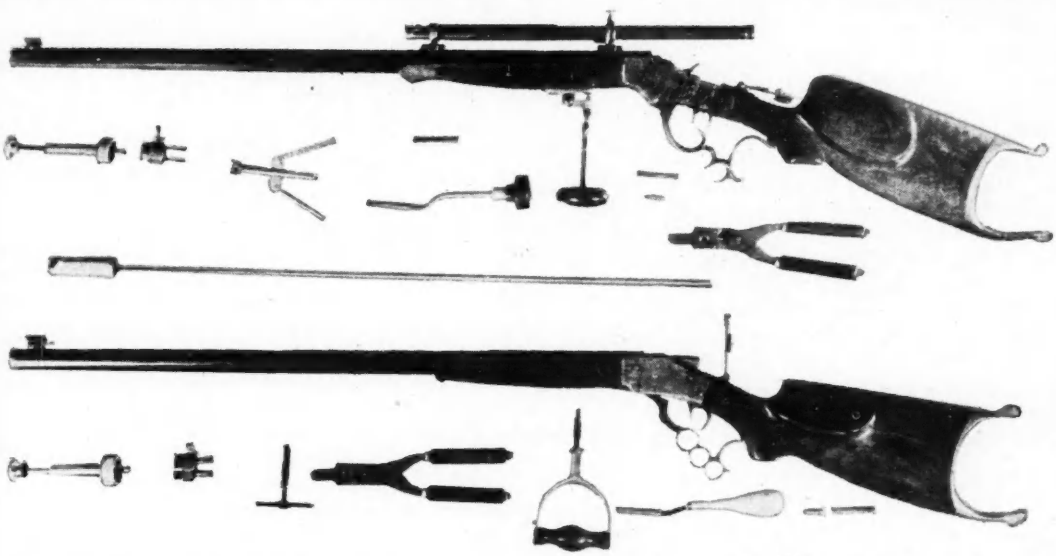
Now 83 years old, Niedner maintains an active interest in competitive shooting. He is always present at national muzzleloading matches



base-band bullet. You think we weren't cranks, eh?

I never saw anyone shoot a possible score on the German Ring target in a match. I don't believe it was ever done in the ten-shot matches but the records would show it if it was. It may have been done in the three-shot matches. Some wonderful shooting was done by the great shots of those times, men like John Kelley, and Will Hayes, Harry Pope, Dr. W. G. Hudson, Adolph Strecker, Dr. Baker, L. P. Hansen, Young, and others. A number of times in the three-shot matches I have fired two 25's and then slipped out on my third shot.

Once on the Milwaukee Sharpshooters range I saw William Finger shoot a three-shot possible in practice at 200-yards offhand, on the German ring target. Finger was shooting a .32-40 Stevens Schuetzen rifle that particular day and he asked me to spot and score for him. He fired his first shot and up came the American flag. Now in the Schuetzen days



Above: A .32-40 Schuetzen rifle on a Stevens 44½ action. Equipped with scope, Pope-type scope rib, vernier peep sight, and palm rest, the rifle has an octagonal barrel. False muzzle and breech bullet seater are pictured with other loading accessories of arm. Below: .32-40 Sharps-Borchardt breech-muzzle loading Schuetzen rifle, with an octagonal barrel by A. O. Zischang, who also made finger lever, set triggers, and palm rest. These target arms of a previous era are in William McCoy collection

if a man got a 25 on the Ring target it was customary for the pitman to raise the American flag and wave it. If the shot was a dead center or 'pinwheel' the flag would come up with a little hat over the end of the staff. Well, Finger reloaded and fired again. When the flag was raised a second time he looked at me kind of doubtfully and got ready for his third shot. After he fired the third time the flag came up with the little hat on top of the staff signalling a 'pinwheel' and a clean score. Finger never would believe he had fired a possible. He always said the pitman and I had doctored that score as a joke. But he did it all right, and I watched him shoot it. I don't recall ever again seeing a possible fired on that little inch-and-a-half center, offhand, at 200 yards.

[In 1894 Ed Richter, a well-known Milwaukee shooter, challenged Niedner to a 100-shot match to be fired at 200 yards, offhand position, on the German Ring target, the stakes to be $500 a side. Niedner didn't have the money at that time so he couldn't accept the challenge. But some friends of his in the club who thought he was a better shot than Richter offered to put up the $500 for Niedner if he would pay them a percentage of what he won. Niedner felt sure he could beat Richter, so he accepted the offer and agreed to the terms. On September 10, 1894, Niedner met Richter for the match on the Sharpshooter range. Each contestant fired 100 shots in ten-shot strings and the firing was witnessed by a group of three fellow club members acting as judges. Both contestants shot heavy Ballard rifles, Richter a .33-caliber Pope barrel and Niedner his favorite .32-40. This first match was won by Niedner. The final total scores were: Niedner, 2136 x 2500; Richter, 2106 x 2500.

[After Niedner had paid back the money advanced by his friends and given them their share of the winnings, he still had close to $250 left. As he says now in telling of the incident, "Not bad for a day's work".

[Ed Richter was not satisfied, however, and in 1898 he challenged Niedner to another match under the same conditions. Again the contestants each put up $500 as proof of the faith they had in their skill and in the accuracy of their rifles.

[They met for the match on a grey winter day, the thirtieth of January 1898. After they had fired a few ten-shot strings it began to snow At first very fine flakes sifted down, gradually increasing until it became evident that a heavy storm was setting in. Niedner speeded up his shooting and was finished long before Richter who, bent on winning, was firing with great care. But the pressure of the match and the difficulty of shooting in the snowstorm were too much for Richter and he got rattled. On the seventh shot in the ninth string he loaded and fired his rifle without seating a bullet, and a miss was signalled from the pit. He immediately asked for an extra shot. The three judges, after a consultation, called Niedner in and asked for his opinion. Niedner said that Richter had gotten a miss on that shot as signaled from the pit. He said it should be scored as a miss, according to the rules, but that he was willing to let Richter, after he had finished his string of 100 shots, fire one extra shot on the target and the judges use their discretion about counting it in

Richter's score. Not agreeing to this, Richter packed up his shooting kit and rifle and left the range without firing the thirteen shots necessary to complete his score. After that Richter gave up shooting altogether. Niedner was declared the winner and the final scores for the match were: Niedner, 2129 x 2500 for 100 shots; Richter, 1690 for 86 shots.

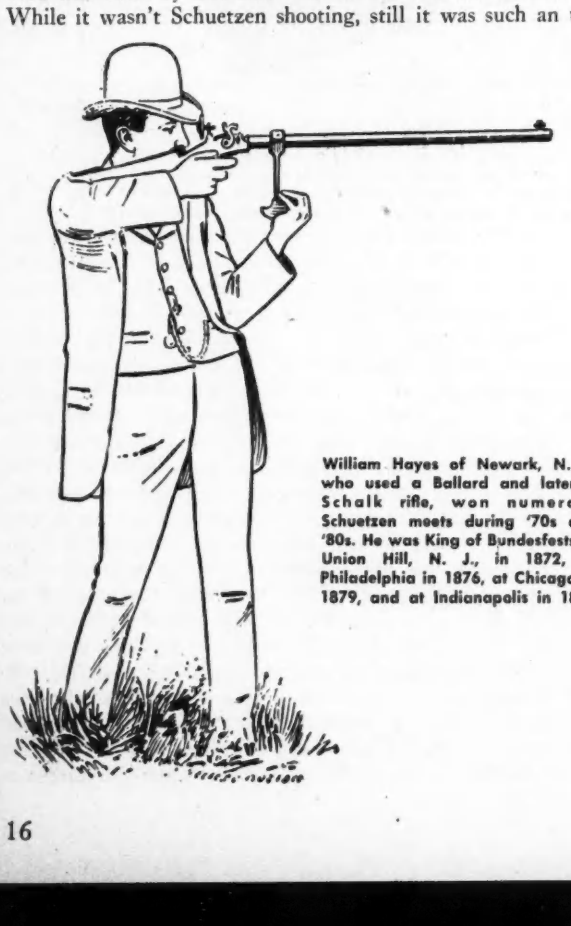
[The following scores were made by Niedner at 200 yards offhand on the German Ring target in various matches on the Milwaukee Sharpshooters range back in the Schuetzen days. Taken from old scorecards in Niedner's files, they serve to show what the Schuetzen rifle was capable of in the hands of a good shot who practiced diligently.

Sept. 1893	235 x 250	10 shots
Oct. 16, 1897	227 x 250	10 shots
March 5, 1898	232 x 250	10 shots
Sept. 4, 1898	225 x 250	10 shots
Sept. 4, 1898	238 x 250	10 shots

[These scores were fired with the .32-40 Ballard Schuetzen rifle and the last two were marked as having been made with an 18-pound Ballard, front-seating a 200-grain bullet on a .32-40 case loaded with black powder and a priming charge of three grains of No. 1 DuPont.

[About 1900 Niedner left the Milwaukee Police Force and returned to Malden, Massachusetts, where he soon opened a shop at 18 Beacon Street in which he produced fine rifle barrels and did custom gunsmithing for a score of years. He numbered among his customers such noted men in the shooting game as Dr. Franklin W. Mann, Theodore Roosevelt, Stewart E. White, Dr. Baker, and a host of sportsmen and target shooters who made shooting history in America before the first World War. He became a member of the Walnut Hill Rifle Club and for years competed in matches at that and many other Eastern ranges.]

I recall that one of the most remarkable groups I ever saw fired was made by Dr. Baker at the old Walnut Hill range. While it wasn't Schuetzen shooting, still it was such an unusually fine piece of shooting that I must tell you about it. Dr. Baker, firing from a bench rest, put thirteen consecutive shots in a one-inch bull at a range of 200 yards. He fired on the Columbia target which had a one-inch center and a ring every half inch. It was a fine target as you could always tell what size group you were getting. Mr. Young, the originator of the Columbia target, gave him a gold medal for his wonderful score. Dr. Baker used a .38-55 Ballard that weighed about fifteen pounds. It had a regular Ballard barrel and set-triggers. I hand lapped the inside of that barrel and made it as good as any barrel I ever worked on. Dr. Baker used a 20-power Sidle telescope sight. He fired a 330-grain bullet with a Chase paper patch and weighed each charge of powder and each bullet.



William Hayes of Newark, N. J., who used a Ballard and later a Schalk rifle, won numerous Schuetzen meets during '70s and '80s. He was King of Bundesfests at Union Hill, N. J., in 1872, at Philadelphia in 1876, at Chicago in 1879, and at Indianapolis in 1885

Some of my best shooting was done with a rifle I built from a wreck of a Ballard I found in a junk pile on a South Dakota farm where I used to shoot prairie chickens for the market back in the '90's. When I asked the farmer about an old rifle I saw, he said I could have it. I sawed the barrel off in his workshop and took the action home with me. Later I built a target rifle on that old action, making the barrel ⅛ inch larger across the muzzle end than the breech. I shot it for years at Walnut Hill, until it was stolen.

Shooting at the Standard American target at 200-yards offhand, I have made any number of targets that scored from 90 to 97. I always liked offhand shooting. I believe that if a man can learn to shoot well in that position he doesn't need to worry about any other.

It might be well to mention here a few of the various types of targets used by the Schuetzen men and to explain them. The Illinois target had a three-inch white center in a twelve-inch black divided into six rings, ¼ inches in width, which scored from 45 to 50. The first card of one shot cost $2.00 and re-entries, at 50¢ each, were unlimited. Ties were decided by the next high shot of the tied shooters. The Swiss "miss and out", which was a popular target, had a three-inch white center and shots outside of it were counted as misses. The old Sharpshooters point target consisted of a twelve-inch black with a center of four inches which counted three points. The next space, with a diameter of eight inches, counted two points, and the outer space, twelve inches in diameter, counted one point. It was scored by the greatest number of hits in the area of highest value instead of by decimal count. In three days of shooting at Philadelphia in 1871, William Hayes made three hundred and forty four-inch centers.

There was another kind of match we used to shoot that will show you that we had good shots and good rifles in the old days. In the match you paid $10.00 for three shots at 200-yards offhand. In the twelve-inch black center of the target was fixed a three-inch disc of black cardboard which had a one-inch ring drawn with pencil in the center. If you hit this cardboard disc three times, you got your money back. If you got a shot in the one-inch circle, you had a chance at the prize money. All the discs were placed in a box after they were shot and then scored by a mechanical device which was accurate to one-thousandth of an inch. The shot nearest dead center won first place, which paid $100. Second place paid $90.00 and so on down to tenth place.

I won seventh place and $40.00 in a match fired about 1905. I shot it with a .32-40 rifle. I got eighth place and $30.00 in a match when I was using my .22 Mann-Niedner base-band bullet in a high-velocity cartridge made by necking the .32-40 case down to .22 caliber. You really had to poke 'em in at the big Schuetzen Matches, or borrow train fare home.

There were three Unions of Schuetzen shooters, the Eastern,

EXAMINER, SAN FRANCISCO, MONDAY MORNING, JULY 22, 1901.

QUIET MARKSMAN ALL THE WAY FROM PITTSBURGH ALMOST TIES STRECKER, MAKING THE RECORD STRING OF RUNNING BULLSEYES AT THE BUNDES FEST

ENLARGED SECTIONAL VIEW OF PEEP SIGHT

SECTIONAL VIEW OF MODIFIED RIGHT AND WIND CHANGE MADE BY DR. POPE

SPIRIT LEVEL

REAR PEEP SIGHT AND RING GAGE

SECTIONAL VIEW OF IMPROVED MECHANISM OF BREECH

MODIFIED FORM OF SCHUETZEN BUTT.

PALM REST

FINGER GRIP

PISTOL GRIP

PHOTOGRAPHIC DIAGRAM OF THE RIFLE OF H.M. POPE SHOWING THE VARIOUS MECHANICAL DEVICES IN USE BY THE WORLD'S CHAMPION MARKSMAN.

O. LEMCKE.

CHARLES ZUMBRAND.

F.E. MASON

LOUIS P. ITTEL

SHAFFER TALKS OF REPUBLICANS

Gives His Reasons for Refusing to Vote With Them.

Says History of Party Is Record of Attempts to Crush Workingmen.

STATIONARY FIREMEN'S STRIKE AT AN END.

Court Will Get Support of United Mine Workers and Will Apply for Their Former Positions.

BIG INTEREST IN KING SHOT

Louis P. Ittel's second-place in the King target match at National Bundesfest in San Francisco in 1901 earned a headline in the San Francisco Examiner of July 22. Among shooters who attended meet were Harry M. Pope, Ed Richter, Fred Ross, John Dillon, and Adolph Strecker, who won. At tournament there were 409 entries in one match alone. Several interesting articles on the shoot by Jack London, who later gained fame for "Call of the Wild" and other books, appeared in the Examiner about that time

the Central, and the Western. Each Union had big shoots each year and every four years they would get together at one place for a big tournament. They shot for medals and other prizes as well as cash. If a man was a good shot and kept up his practice, he had a chance to win big money in the matches we held. Big Schuetzen matches were held in New Jersey at Union Hill, in St. Louis at Carondelet Park, at Joliet, Illinois, at Davenport, Iowa, and at Chicago, Milwaukee, and San Francisco. As I recall, the last big old-time shoot was held at Union Hall.

The first time we used a jacketed bullet in a Schuetzen match was at Union Hill. Mr. Lynch, Mr. Lewis, and myself shot rifles which I had made up on the Stevens No. 45 action. These were Schuetzen rifles weighing fifteen pounds with palm rest and telescopic sights. I made the barrels, and rifled and chambered them for the .22 base-band bullet. This was one of the best and most accurate cartridges I ever made. It would make 1½-inch groups at 200 yards when conditions were right. We shot a sharp-pointed, 60-grain bullet pushed along by 19 or 20 grains of Lightning powder. We were a long time getting these rifles declared eligible. There was a lot of hard feeling about using the jacketed bullet in matches. We fired three shots offhand for record at 200 yards on the German ring target. I got a 25 on my first and second shots, but dropped to a 19 on my last shot. Mr. Lewis tied Fred Ross for first place using the rifle I had made him. I don't recall the winning score but the first and second prizes were $300 in gold and they split it.

For close to forty years I fired, both in practice and in matches, as high as 300 shots a week offhand. All the top ranking shots did a lot of practicing, and they had the most accurate rifles and barrels they could lay their hands on. Since most of the Schuetzen matches were at 200 yards, we had to be able to hold and to dope wind. If you couldn't do that, you were out. Very few shooters of today know of the fine shooting that was done forty and fifty years ago. The Schuetzen days came to an end with the beginning of the first World War. The fact that it was German-type made it unpopular and the shooters turned to military shooting. There aren't very many of the old-timers who shot in the old matches still living, but the records that the Schuetzen men left behind them show that they were real riflemen. ◆ ◆ ◆

GUNSMITHING

Here is the first comprehensive study of the controversial 'gunsmithing schools' . . . where they are, how they operate, what they offer

NCHOOLS: *A Report*

THERE HAVE NEVER BEEN enough good gunsmiths to go around. An encouraging postwar indication that the shortage of conscientious, trained craftsmen may one day disappear is the emergence of the gunsmithing school—actually, a course in the art offered by a responsible institution of learning. Today there are at least three schools in which such gunsmithing courses are actualities. How good these gunsmithing courses are is another question. Can such an 'art' as gunsmithing be taught in a school? Are graduates going to take their places alongside the fine old practitioners of the art, or will they be mere mechanics, handling guns much as their brothers-in-grease handle an over-age automobile? Does the Veterans Administration approve? Are courses adequate? Do they rely so heavily on machine-shop methods and expensive tools that the graduate will be lost once he is on his own and without the thousands of dollars worth of equipment supplied by the school? Most important to the would-be student: Is a gunsmithing course the best way to break into the business? Will a graduate of one of these schools have a reasonable chance of making a living?

To get the answers to these and similar questions, the RIFLEMAN sent a writer-photographer team into the field with instructions to bring back as many specific answers as possible. Particularly, do the schools offer a prospect of continued success after the flood of GI-sponsored students has abated and the courses are 'on their own'? The schools visited were the Lassen Junior College at Susanville, California; the Colorado School of Trades at Denver; and the Trinidad Junior College at Trinidad, Colorado. Here and on the four following pages is the RIFLEMAN'S report:

Understandably, the three schools varied. Each showed strong and weak points which were balanced out by similar variations in the others. There was evident however a sincerity of purpose on the part of the administration of each of the schools which bodes well for the future. In each case the instructors are capable and hard working and their attitude is reflected in the general enthusiasm of the students. As an indication of success already achieved, all three schools are approved by the Veterans Adminstration for GI training and all three have a waiting list. Moreover, there is an intelligent awareness on the part of the school administrations that the Veterans Administration training program will not last forever and that the future of the schools depends upon the reputations made by their graduates. None of the schools visited is letting students slide through. As an example, something like fifteen percent of each yearly crop of students is washed out at Trinidad prior to graduation.

All of the schools are dissatisfied with their courses as they stand at the moment. They have learned much in the short time they have been operating and are still making changes in the courses in order to give the graduate a better start. Lassen Junior College at the moment offers an Associate of Arts degree for its three-year course. Next year the course will be four years and will give the graduate a Bachelor of Arts degree.

None of these schools claim to turn out a finished gunsmith any more than an engineering school turns out a finished engineer. What they do give is educational background, confidence, and judgment as to their own limitations and to the limitations of their equipment. Too, each of the schools is located in game country and students learn much about the viewpoints of hunters and gun users in general.

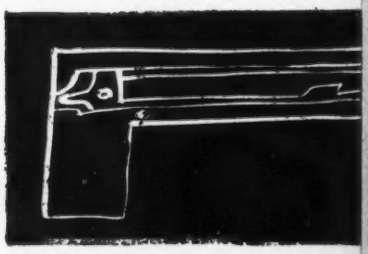
Gunsmithing on the level taught at these schools embodies a wide range of subjects. Included are machine-shop practice, mechanics, design, art, metallurgy, chemistry, physics, and optics. The schools attempt to give students the basic principles of each as well as the details of special application to the gunsmithing field.

Where the schools differ most sharply is in their ratio between classroom and shop. The school placing the heaviest emphasis on academics is Trinidad, where the course is about equally divided between classroom and shop. The Colorado School of Trades is exactly what its name applies, a trade school, and the student receives an hour of classroom work to seven hours of shop. Lassen Junior College is a compromise between the two from the standpoint of academic requirements.

Where the line should be drawn between academics and shop work in a gunsmithing school is difficult to determine. Obviously it depends a great deal on the student and his ultimate aims. It will sometimes be difficult for a student to understand why or how a course in physics is going to pay off when he opens a gunsmithing shop. Primarily he should look at it as a long-term investment. A knowledge of physical laws is going to put him in a better position in discussing ballistic problems, for example, and he is not apt to go off the deep end with a judgment which is fundamentally unsound because it violates basic physical laws.

Selection of a gunsmithing school between the three discussed in this article will depend almost entirely upon the individual. For more information on entrance requirements, cost, living accommodations, and courses offered, turn to page 22.

At this stage, gunsmithing schools look like a step in the right direction. They're new, they have faults (which are being corrected) and there are not enough of them. In spite of these shortcomings, however, it looks as if gunsmithing schools are here to stay. The end result should be a gradual but marked improvement in the quality of gunsmithing available to the American shooter. ◆ ◆ ◆



Lassen Junior College

SUSANVILLE, CALIFORNIA

Plenty of power tools are available in all three schools. This is a view of the Lassen shop layout

Colorado School of Trades

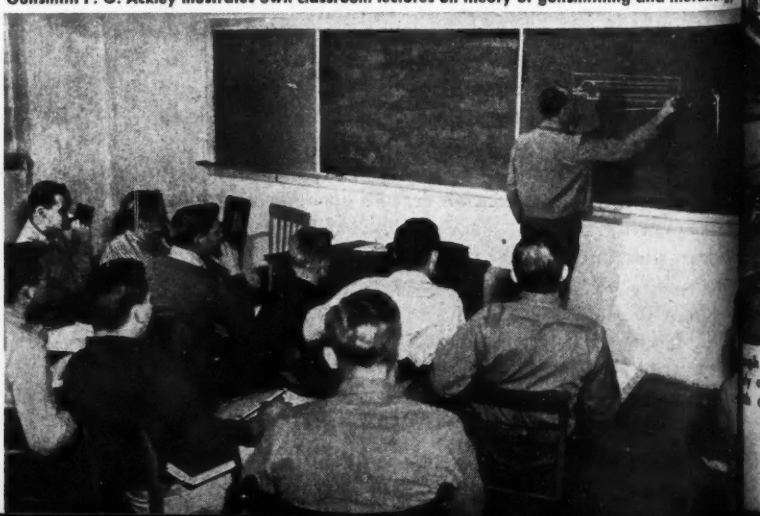
DENVER, COLORADO

Colorado School of Trades schedule calls for about seven hours in shop to one in classroom

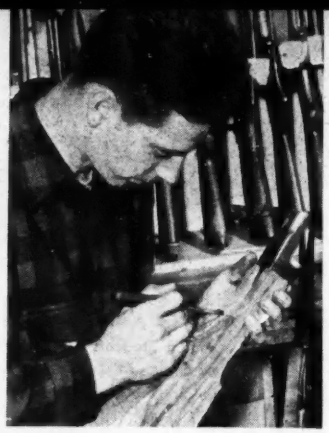
Gunsmith P. O. Ackley illustrates own classroom lectures on theory of gunsmithing and metallurgy

Trinidad Junior College

TRINIDAD, COLORADO



veteran Howard Williams is
of Lassen student body and
Junior College Gunsmiths' Guild



First graduate of Lassen was Harlan Fritts, who now has own gunshop in Susanville. Here he fits shotgun stock

Another Arisaka sporter, built by Dick Olinger. This one has been rebarreled by Olinger for .300 Savage cartridge

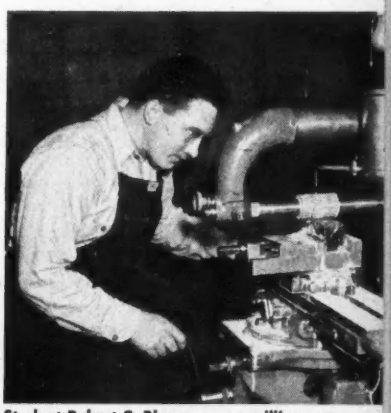
7mm Arisaka remodeled by Lassen student Bob Bushey. Stock is of walnut with maple grip cap and fore-end tip

Dallas and Howard Williams teamed up to remodel this 7.62mm Russian rifle. Job was done during first year

lishing is always a messy job.
use of face mask to protect eyes

R. W. Buie, Linwood, N. C., restocks an 8mm Mauser

Nick Pavlovich, Monroe, Mich., assembles M-97 Winchester



Student Robert C. Blazer uses a milling machine in shaping a set of Springfield bolt-handle bending blocks. Two machine-shop instructors handle this phase of the course

gunsmithing schools are relatively new, graduates al-
are turning up in professional shops. Dwight H. Wood-
of Cokedale, Colorado, now works for P. O. Ackley

Students at all three schools 'eat and sleep' gunsmithing. Below, a group of Trinidad students compare notes. Right: Trinidad course includes plenty of work on lathe and milling machine

Lassen Junior College

Admittance

High school graduates or others over eighteen years of age who are deemed capable of profiting from the instruction offered. Students are admitted in the fall only. Prerequisites are high school physics, chemistry, machine-shop practice, and welding. Anyone desiring to enter without these credits may take them in the Susanville High School concurrently with the gunsmithing course. Approved by Veterans Administration; waiting list.

Costs

Housing and dormitories available on a veterans' priority basis. Housing is $25 per month furnished; $21 unfurnished, plus gas and electricity. Dormitories $15 per month (two in a room). Board $165 for 18 weeks ($50 first month, $35 second month, $40 succeeding months). Non-veterans may receive same housing, if available, at above rates; otherwise rooms and board available in Susanville at about $72 per month. Books for entire course about $100. Tools and materials about $300. No additional charge for out-of-state students.

Course

At present, three years. Next year it is planned to extend course to four years. At present students fulfilling academic requirements of the college qualify for an Associate of Arts degree. When the course is extended to four years it is planned to offer a Bachelor of Arts degree.

In addition to shop work the Susanville course offers heat treating and testing, and a course in metallurgy is being added. A course in art under the college art instructor is included where woodcarving and metal decoration are taught.

Instructors

C. W. Frost is responsible for all gunsmithing instruction. Frost graduated from Humbolt State College after majoring in social sciences; has been associated with guns and shop work since he was a boy. While going to school, Frost worked with several old German gunsmiths; was a gunsmith in Arcata, California from 1935 to 1942. Has done general gunsmithing but specializes in fine stock work for which he has acquired a considerable reputation.

General

The course at Lassen Junior College emphasizes fast methods, although not at the expense of quality. As an example, Frost has developed a method for inletting gunstocks with router bits in a drill press, using templates for guides. The heavy work of inletting can thus be done in a few minutes, saving hours of handwork. Final fitting is done by hand. (Frost is presently writing a book which will include full data on his methods.) Course requires some original design work.

Colorado School of Trades	Trinidad Junior College
No minimum age limit. Students are admitted at any time during the year; a progress chart is kept on each student. No prerequisites in education required. Students are accepted by mail and admitted in order. Approved by Veterans Administration; waiting list.	No minimum age limit established. Students admitted in the fall only. Before final registration prospective student must submit a complete record of all high school work, together with personal data from both student and high school principal or superintendent. Approved by Veterans Administration; waiting list. Adjustments in entrance requirements may be made for veterans in certain cases.
There is no school housing. Rooms are available in Denver; most students pay $4 each per week for double room and eat in restaurants. Meals are reasonable. Under these conditions room and meals average $50 to $60 per month. No special housing arrangements are available to veterans. Tuition is $22.28 per week. Tools for the course cost about $80. Books are furnished by the school.	Trinidad Junior College owns 20 Quonset-hut apartments which are available to veterans and others. Meals served at the school on a cost basis. Cost of board and room, $45 to $60 per month. No tuition cost for residents of Colorado. Out-of-state students pay $30 per quarter or $90 per school year. Books and tools total about $100 per year.
Complete course is 69 weeks. Minimum accomplishments for graduation can be completed in less time if the student is previously experienced in some lines or has high aptitude for the work. School takes in local gunsmithing at the present time at no charge but accepts only those jobs needed to give the student well-rounded gunsmithing experience.	Complete course is two years with time divided evenly between shop work and academics. Gunsmithing students at Trinidad must take English, blueprint reading and sketching, metallurgy, and business organization, as well as shop. Also mandatory are either applied mathematics, college algebra, trigonometry, or analytical geometry, and general science, physics, or chemistry.
School is owned by H. J. Crim (President) and J. J. Snyder. Both are college men, experienced in the educational field. Crim was a toolmaker by trade for 35 years and started teaching in 1940; was supervisor over shops for trades and industry training in the Denver public school system. Also taught drafting at the Opportunity School in Denver. Both Crim and Snyder received educational training at Colorado A&M. All machine-shop instructors at Colorado School of Trades also received teacher training at Colorado A&M. In addition to Crim and Snyder, nine instructors conduct day and night classes. Two are machine-shop instructors, the other seven gunsmiths.	P. O. Ackley, well-known as a commercial gunsmith and barrel-maker, conducts classes at Trinidad and works closely with the school in handling the entire course. Ackley received his Bachelor of Science degree from Syracuse University in 1927; also attended Colorado A&M. Teaches theory of gunsmithing and metallurgy. Other instructors teach repairing of rifles and use of hand tools, tool and part manufacture and bluing; conversions, stockmaking, and repair of shotguns and pistols; machine phases of gunsmithing.
Mr. Crim was asked if he preferred students with previous toolmaking and machine-shop experience. Surprisingly, the school does not prefer men with such experience, would rather teach its own methods of toolmaking and shop practice. Crim claims that toolmakers and machinists are accustomed to having a variety of expensive equipment but will not have such equipment in their own shops when they start in business. Colorado School of Trades attempts to teach "tricks of the trade" necessary in the absence of such elaborate equipment; does not stress the making of tools on the theory that these can usually be bought so cheaply as not to justify the student making them.	Students at Trinidad spend greater part of first year in making tools. This gives them experience in heat treating and working with metal and wood. While learning this they are accumulating tools which will be useful to them in later phases of the course and after graduation. During the second year students use these tools in working on guns, during which time they are required to complete a rifle.

Keith

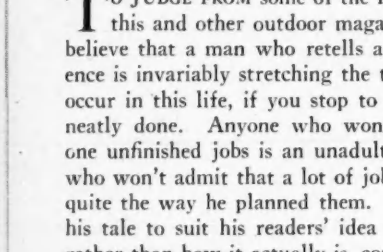
JOINS THE AMERICAN RIFLEMAN STAFF

The Rifleman has long wanted a Westerner on its staff. So . . . with this issue, Elmer Keith takes his place on the Rifleman's already outstanding 'panel of experts'

TO JUDGE FROM some of the letters which are published in this and other outdoor magazines, there are skeptics who believe that a man who retells an outlandish hunting experience is invariably stretching the truth. But the things which occur in this life, if you stop to think about them, aren't all neatly done. Anyone who won't admit to a thousand and one unfinished jobs is an unadulterated liar—as is the fellow who won't admit that a lot of jobs he finished didn't turn out quite the way he planned them. The fellow who glibly tells his tale to suit his readers' idea of how the thing should be rather than how it actually is, compromises his subject for the sake of his audience.

Outdoor writers, too, compromise their subjects. Too often they don't repeat the things which fail to come off 'according to the book'. Some of my personal experiences, recounted in books and magazines articles, have stirred up a certain amount of criticism, both caustic and self-righteous, about the way I have hunted and about the guns and loads I have used in killing my game.

My hunting hasn't been done to prove anything. Nor have I always made a point of using the most efficient high-velocity load in the latest model bolt-action rifle. I like the outdoors, and the pleasure which comes of climbing the hills or hanging onto a mahogany after game. I've spent a lot of time hunting, and have killed my share of game, sometimes with a rifle, sometimes with a six-gun, once with a knife, but it doesn't mean anything except that I was intent upon killing that game. I think that this point of view is a little rare today. If there are any Eastern hunters who don't particularly care for the fare I serve up, let each of them go back to his shooting gallery or the pasture in which he makes those long-range, pin-point, clean-killing shots at woodchucks.



Here, at the risk of again being called an unvarnished liar, are some of the curious experiences I have had. I submit them only as freaks . . . strange incidents of a lifetime of hunting. What do they prove? Nothing . . . except that some odd things will happen if you follow any pursuit long enough, and often enough . . .

Doc Wilson DuComb of Carlyle, Illinois and I were hunting sheep and javalinas in Sonora under the guidance of old Charley Ren. This particular day Doc and I and a Mexican were after the little wild hogs. The Mexican had a couple of dogs trained to hunt them and we rode out a lot of dry washes before sighting our first tracks. Soon both the dogs and the Mexican tore off up a dry thorn- and brush-covered canyon in full pursuit of the little pigs. I had no trouble keeping my horse at the Mexican's heels, but Doc who was mounted on the most peculiar saddle I ever saw, lagged behind! That saddle of his had a seat raised some three inches above the tree bars and the stirrups were too short, so Doc seemed to float along on his mount amid a flapping of knees, elbows, and his .30-'06 Winchester. He was soon left behind, and in short order the dogs lost the trail and the Mexican and I stopped.

Then we heard Doc yell that he had the hogs holed up, so we back tracked. Sure enough he was sitting his mount at the mouth of a low cave. He said he saw a couple run into

it and never come out. The Mexican took one look at it and said *no bueno*, and wanted to hunt elsewhere, but I would have none of it. It was our last day so I determined to get those pigs. With a .357 S&W Magnum in one hand I crawled into the cavern. It was empty, but at the back it choked up into a very narrow, low passage.

When I crawled back into this narrow passage, I could see nothing but could plainly hear the chattering of those wicked tusks being gnashed together faster than castanets, one to my right and another to my left plainly telling me that narrow passage into which I was jammed opened out into a larger cavern. The next thing I knew I was unceremoniously jerked out of that cavern by the Mexican, who had roped one of my feet and mounted his horse and dragged me out. Again he went through the pantomine of a boar slitting my throat with his tusks. Neither of us could speak Spanish, nor could the Mexican speak English, but I tried to let him know I was going to get those pigs. We had him gather some dry wood, and I set it afire and tossed a good armful back into the farthest cavern with our javalinas. As the thick smoke eddied out of the cavern I lay down on my belly in a small amphitheater in front of the first cave. It was surrounded by white frosted cholla some three feet high on all sides. Doc perched up on the ledge with his .30-'06 trained down in front of me.

Soon the pigs commenced to cough and the next thing I knew a set of white tusks was coming at me under the low overhang of the cave. I promptly gave them a 160-grain Keith hollow-point and jumped erect and started to back up as the javalina rolled end over end to the center of the clearing. Brain shot, he started jumping six feet into the air and coming down kicking. The dust soon obscured everything except Doc pointing his rifle down into the melee. We could hear the other wild hog running around at my feet and clashing his tusks together but could see nothing except the brain-shattered one bouncing up above the dust in his death throes. I inadvertently backed up too far and found my backside frosted with cholla burrs. When the dust settled the other peccary had gone back in the den and we had to repeat the performance to get him, but we had our wild hogs. I spent the next half hour draped over an ancient log, sans pants and underclothes, while Doc and the Mexican pulled cholla spines from my backside with a pair of pliers. Somehow, things on that hunt didn't pan out exactly as we had planned them . . .

Doc Reising, Ed Lovedahl, and I were making a last effort for a good brown bear skin on the Alaska peninsula in '37. I had already killed a record grizzly that charged us unprovoked and came on to the finish at just twelve feet, but still had not obtained a good skin for a rug, nor did I on that trip.

Coming around a point of thick alder screen we came face to face at twenty yards with a big old sow brownie and two yearlings. Instantly she snorted and blew at us, with her upper lip extended our way. Then she gave each yearling a resounding slap on the backside, which started them reluctantly up the steep alder-covered slope, before she whirled back facing us, snapping and blowing at us.

The guides fanned out to my right and left, each cautioning the other to watch out as she was coming. With the safety turned over on my G&H .35 Whelen and a bead on the center of her big bushel-basket head, I started cussing the old gal in a slow even drawl, telling her to not start anything she could not finish. She was rubbed to high heaven, not enough hair on her huge frame to make a good hat so I did not want to kill her. She popped her teeth together and blew through her nose at me for a couple of minutes as I stood my ground, not giving an inch. Then I took a couple of backward steps, hoping slowly to back away. She started toward me again with teeth chomping for all the world like a mad hog. Again I stood my ground and talked to her and again she stopped. We kept up this procedure for what seemed a long time to me, backing up and having her start for us and stopping when we stopped and I cussed her out again. She wanted to give her yearlings time to get away and I do not think wanted to charge unless we forced her to by some fool quick move. So when I backed up the guides followed suit. They were slightly

behind and to each side of me. Then when the old sow would shuffle her big paws and come again we would all stop and I would again tell her what I thought of her ancestors. Finally, she turned her head and looked back to where the yearlings had disappeared in the alders. This time we stood our ground and with a final snort she turned slowly around and walked off as independent as a hog on ice . . .

Black bear are supposed never to charge unprovoked. Six of us with 23 head of horses were slowly cutting our way through dense scrub Arctic birch, willow, and spruce, from the Siccanni to the Musqua river. Westley Brown was on foot in the lead cutting the small trees, followed by Edgar Dopp some thirty yards to the rear. Then, at another twenty-yard interval, came their two saddle horses with reins wrapped on the horn and then Dick and Doc Brown. Then half of the packstring, myself, followed by the rest of the string, and Allen Robinson bringing up the rear.

Suddenly Westley yelled, "Look out for the bear". I climbed up to a standing position with my feet in the seat of the saddle so I could see over the intervening men and horses. A good strong breeze blew from us and the pack outfit toward a black bear that was coming after Westley like all possessed. His ears were laid flat, his upper lip was extended, and his teeth were clicking at every jump. Westley is a very powerful man, perhaps the most powerful man in all the Peace river country, and active as a cougar. He was clearing the small stumps in a hard run for his horse, where he hoped to grab his .30-30 carbine and turn on the bear. I had a good model 70 in .375 Magnum in my hands but could do nothing on account of the men and horses in front of me. Casting a glance to the rear, Westley saw he could not make it and whirled and raised his four-pound chopping ax high. Just then Edgar Dopp bit his right glove and jerked it from his hand, drew a .455 triple-lock S&W revolver and shot with both hands on the gun. The heavy slug struck the bear just to the rear of the right eye, angling back through the brain pan and he turned somersaults to Westley's feet and landed with his head on top of a stump. Wes sank his heavy ax into the back of the bear's head up to the handle and asked, "How do you like that?" . . .

An Alaskan guide and I were out with an eastern sportsman for brown and grizzly bear on one of the major islands of Southeastern Alaska. A well-furred but small two-year-old grizzly came out of the alders and headed across the sand to the salmon stream for his evening meal. Just as he tipped over the bank into the river he took a 225-grain .30-'06 in the rear end, the bullet from the sportsman's rifle emerging just to the rear of the right shoulder and low down. Instantly the grizzly whirled and came back past us at 50 yards running as only a badly frightened bear can go. He took another Peters 225-grain slug squarely through both lungs just behind the shoulder and only swung his head back and snapped at the bullet entrance, never even breaking his stride as he flashed on and into the alders, headed up a very steep heavily-timbered hill. The guide did not like the idea of following him with the sportsman in that stuff so asked me to trail the bear while he took our hunter around to the right and up a trail.

I had progressed up the mountain through that thick jungle for some 300 yards when I came to a huge down log. Between ferns, devils club, and other brush, as well as huge tree boles, I could not see ten yards at most and often not half that distance. When I looked over the log there sat the grizzly with teeth bared, blowing at me. Slipping the safety on my .450-400 double rifle, I covered him and determined to give him both barrels if necessary. The bear was pretty sick, so I whistled and located the guide and hunter and told them to work over to me but not to shoot until both myself and the bear were in clear view with no intervening limbs or brush. The bear continued to hiss and snap his teeth at me, but never attempted to come, so I simply watched him over the big double rifle.

Soon the hunter shot him through the head with another 225-grain Peters belted and he dropped like a log. The guide rushed up, jumped the log and grabbed the bear by the ears and lifted his head to show it off. "Isn't he a dandy!" Just then the grizzly came alive in his arms. I have never seen a man make a higher standing jump. The hunter again busted him through the head, this time in the rear of the skull and brain pan and the job was finished. . . .

Herman Prins of Holland, Michigan, and I were hunting goats on Cottonwood creek, a branch of the main Salmon. After a dangerous climb we reached a point about a hundred yards above a nice billy. Herm wanted the whole specimen for complete mounting. I carried one of the then new .348 Winchesters that the Company wanted tested on game. The cartridges were loaded with their worthless 150-grain soft points. Herm decided to try the .348 on the goat as he stood broadside below us on a ledge. He proceeded to put three successive slugs through that goat's lungs and chest to the skin on the offside. All they did was start the goat around the ledge. Herm yelled for me to stop the goat with his Springfield, so I planted a 180-grain .30-'06 in the goat's fast-disappearing rump as he went around a ledge out of sight. Herm then took the Springfield and worked down a crevasse while I watched from above. Soon he started shooting again and put the other five 180-grain .30-'06 loads in the billy. Then, as Herm watched with an empty gun, the goat tried to paw himself to the edge and jump or throw himself over, as wounded goats are famous for doing. Herm leaned his rifle against the ledge, jumped down and grabbed the goat's hind feet and when I arrived on the scene he was hanging on for dear life, with his feet braced against a scrub mahogany that grew from the ledge. Hooking my arm around another mahogany to stay on the cliff I knifed that partciular goat to the heart, and we skinned him out complete on that narrow ledge with a quarter-mile sheer drop below us. According to Hoyle, that goat should have died instantly from any one of those nine shots from the .348 and the .30-'06. . . .

As I said, such crazy affairs prove nothing . . . except that strange things happen to a man who hunts if he'll but spend enough time at it. ◆ ◆ ◆

BARREL LENGTH *and* VELOCITY

By PHIL SHARPE

PHIL SHARPE DIDN'T BELIEVE THAT OLD ONE ABOUT LOSING 25 FEET PER SECOND FOR EACH INCH REMOVED. CONCLUDING THE ARTICLE ON WHAT HAPPENS WHEN YOU SHORTEN A RIFLE BARREL

THE BACKGROUND OF determining the loss in velocity of various .30-'06 loads created by reducing the barrel one inch at a time was described in detail last month. It will not be repeated here, but a brief outline of the problems of recording velocity should be mentioned.

The accuracy of recorded velocities is primarily a matter of equipment; the uniformity of recorded velocities is primarily a matter of conducting the firing of the gun—*not operation of the recording device.*

All of the following recordings were made with the latest type of Potter electronic counter chronograph or interval timer and Potter photoelectric screens. For precision readings, the initial screen is set up ten feet from the gun muzzle to avoid false readings caused by blast. The second screen is *exactly* 100 feet beyond the first. The instant a bullet nose enters the sensitive open area of the first screen, it starts the timer counting at the rate of 100,000 times per second. The bullet nose, entering the sensitive area of the second screen, interrupts a light beam which sends a similar impulse back to stop the counter. The panel of the chronograph thus gives the exact time it takes for the bullet to travel 100 feet; for example, a reading of .02912 seconds indicates an average velocity over that 100 feet of 3434 feet per second. Since the 'average' is roughly at the halfway point, or 50 feet, you add the blank distance of ten feet from muzzle to the first screen, and get that mystifying term, 'Instrumental Velocity 60 feet'.

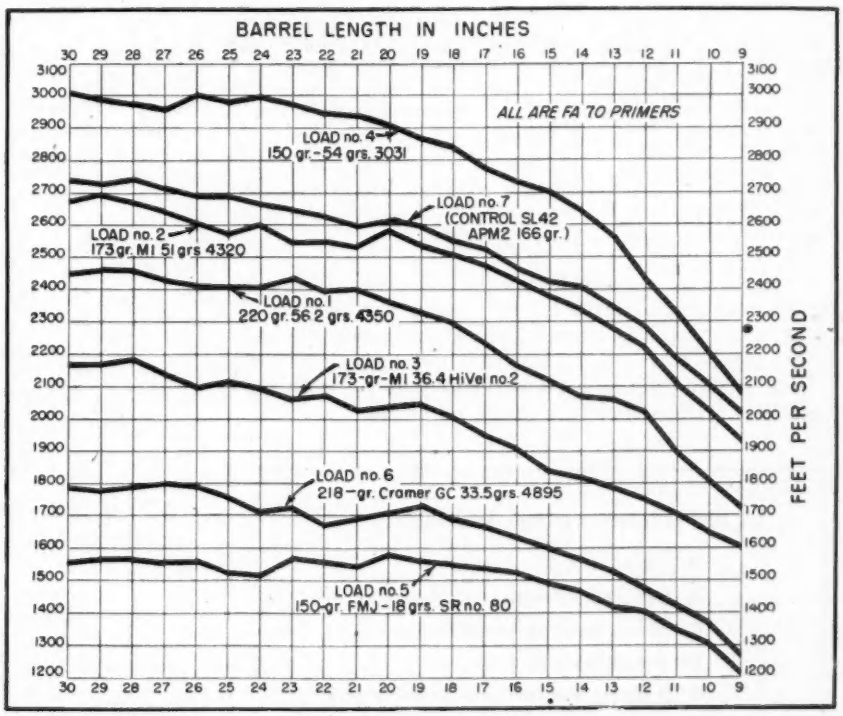
From the recorded figures, you may calculate by complicated formula, the theoretical and mythical 'muzzle velocity'. You have to take into consideration the bullet weight, sectional density, shape, velocity level, and other things. It isn't worth the effort; it tells you nothing; it cannot be verified. This writer never calculates or estimates muzzle velocity; the actual recorded instrumental velocity is good enough.

With the 100-foot screen separation, velocity variations can be recorded to a single foot-second or closer.

Velocity variation, shot-by-shot, in a given load, is more important. Generations of testing in the laboratories of ammunition makers has developed a technique for achieving reasonable uniformity. A constant temperature is maintained for both atmosphere and ammunition; cartridges are uniformly inserted into the gun; the operation is completed with the precision of a surgeon performing an operation.

Slightly different velocities are noted if the cartridge is gently rolled to distribute the powder charge uniformly over the bottom of the case and then carefully inserted into the chamber so that the powder position is not disturbed; if the cartridge is placed bullet up and tapped lightly to settle the powder at the primer end; or if the cartridge is reversed and tapped lightly to place the powder at the bullet.

Perhaps for laboratory research purposes, this is a good idea. I prefer to test as the average shooter would fire. I just pick up a round from the loading block on the shooting bench, insert it in the chamber in an ordinary manner, and fire. Recorded results therefore are what the normal consumer of the ammunition may anticipate.



This graph plots variation in velocity of .30-'06 loads for each inch of barrel removed during test

No one has ever loaded and chronographed a string of ammunition and recorded exactly the same velocity, shot after shot. Any chronograph operator getting three identical readings in a row would stop firing and investigate the instrument to see what had gone wrong.

Velocities of each shot are entered as fired on the velocity record sheet. The operator then picks the highest velocity and pencils a + sign beside it. Beside the lowest figure he enters a — sign. At the bottom of the sheet he enters the difference as "maximum or extreme variation" (both terms are used). The entire column of velocities is then added and averaged to get *mean velocity*. Next comes the determination of *mean variation*. This is important!

Individual velocities are compared with the mean velocity and the difference is noted by subtraction. It does not matter which is higher, the individual or the mean figure. This is done for the entire string, and the figures are added; the total is then divided by the number of shots fired, resulting in a figure indicating "the average variation from the average velocity" expressed simply as *mean variation*.

Thus mean variation is a better picture of uniformity than maximum variation, and most laboratories usually ignore the extreme unless it is unusually excessive. In the following recorded velocities, mean variation is given to show uniformity of the load at each barrel length. You may thus compare the velocity of the handloads with those of factory loads to form your own opinions.

Loads 1 to 7 were fired in all barrel lengths from 30 to 9 inches. Other loads were fired only as indicated. Here is the data:

Load No. 1—Bullet: 220-grain Krag cupronickel jacket. Primer: FA 70. Case: SL 42. Powder: 56.2 grains IMR 4350, lot 8C. Results of firing below:

A	B	C	D	E	A	B	C	D	E
30	21	10	2452	xxx	17	85	24	2238	60
29	34	12	2466	+14	16	70	21	2171	67
28	20	7	2461	5	15	90	30	2123	48
27	40	13	2432	9	14	82	20	2076	47
26	28	8	2411	21	13	94	25	2067	9
25	74	20	2413	+2	12	94	24	2031	36
24	118	29	2414	+1	11	103	41	1901	130
23	63	16	2427	+23	10	71	20	1820	81
22	68	19	2391	46	9	39	10	1736	84
21	46	20	2401	+10					
20	44	11	2359	42					
19	88	32	2237	22					
18	70	23	2298	+61					

Velocity loss between 30 inches and 20 inches, 93 f.s. or 9 f.s. per inch.

Note that at some barrel lengths there was an actual velocity gain as the length was reduced. This is not unusual. It appears in every load tested. Final comments on the load: While at the short lengths, blast was very great, with much of the powder burning in the air in front of the muzzle, no unburned grains were left in the barrel or case.

KEY to columns of figures in tables

A: Barrel length (inches)
B: Extreme velocity variation (f.s.)
C: Mean velocity variation (f.s.)
D: Mean velocity (f.s.)
E: Velocity loss last inch of barrel (f.s.)

Load No. 1A—This load is identical with the above except that Western 8½ primers were used instead of the FA 70. It was check-fired to show the difference in velocity created solely by primers.

A	B	C	D
30	46	12	2569
26	41	11	2522
24	34	11	2478
20	55	15	2363

Velocity loss 30 to 20 inches, 206 f.s. or 20½ f.s. per inch.

Load No. 2—Bullet: FA 9-degree boattail, 173-grain Ml. Primer: FA 70. Case: SL 42. Powder: 51.0 grains IMR 4320. Results of firing below:

A	B	C	D	E	A	B	C	D	E
30	37	10	2684	xxx	17	97	26	2480	29
29	118	35	2698	+14	16	36	8	2427	53
28	92	27	2688	10	15	18	5	2381	46
27	60	17	2649	37	14	47	14	2342	39
26	99	30	2611	38	13	49	12	2279	63
25	114	22	2588	22	12	90	31	2226	53
24	30	8	2605	+17	11	40	15	2109	117
23	33	10	2550	55	10	45	11	2037	72
22	44	16	2553	+3	9	67	19	1938	99
21	91	26	2537	16					
20	11	3	2584	+47					
19	30	9	2537	47					
18	23	6	2509	28					

Velocity loss 30 inches to 20 inches, 100 f.s. or 10 f.s. per inch.

Load No. 2A—This load is identical with above except that Winchester 115 primers were used in place of FA 70.

A	B	C	D
30	42	15	2726
26	86	34	2612
24	72	16	2669
20	95	25	2533

Velocity loss, 30 to 20 inches, 193 f.s. or 19 f.s. per inch.

Load No. 3—Bullet: FA 9-degree boattail, 173-grain Ml. Primer: FA 70. Case SL 42. Powder: 36.4 grains HiVel No. 2. This load is an attempt at duplication of the famous Frankford Arsenal International Match 300-meter load. Results of firing below:

A	B	C	D	E	A	B	C	D	E
30	44	14	2165	xxx	18	80	26	2009	40
29	54	23	2164	1	17	14	6	1954	55
28	45	14	2186	+22	16	43	14	1910	44
27	152	33	2140	46	15	38	11	1842	68
26	105	29	2102	38	14	21	9	1823	19
25	53	15	2118	+16	13	52	22	1791	32
24	70	18	2098	20	12	126	38	1754	37
23	65	17	2069	29	11	42	13	1705	49
22	50	19	2087	+18	10	33	9	1654	51
21	48	16	2033	54	9	45	16	1609	44
20	56	16	2041	+8					
19	99	23	2049	+8					

Velocity loss, 30 to 20 inches, 123 f.s. or 12 f.s. per inch.

Load No. 3A—This load is identical with above except that Remington 9½ noncorrosive primers were used in place of the FA 70.

A	B	C	D
30	51	16	1992
26	126	34	1960
24	48	15	1952
20	55	17	1950

Velocity loss, 30 to 20 inches, 42 f.s. or 4 f.s. per inch.

Load No. 4—Bullet: 150-grain .30-'06 cupronickel full jacket. Primer: FA 70. Case: SL 42. Powder: 54.0 grains IMR 3031. Results of firing below:

A	B	C	D	E	A	B	C	D	E
30	55	14	3013	xxx	13	17	12	2572	77
29	51	16	2987	26	12	40	15	2427	145
28	38	12	2981	6	11*	54	18	2332	95
27	47	15	2960	21	10	70	18	2206	126
26	33	14	3019	+59	9	65	21	2092	114
25	113	30	2993	26					
24	47	13	3000	+7					
23	71	24	2979	21					
22	49	13	2949	30					
21	38	13	2943	6					
20	30	8	2904	39					
19	57	16	2871	33					
18	60	14	2845	26					
17	96	31	2777	68					
16	45	14	2741	36					
15	36	12	2705	36					
14	13	3	2649	56					

Velocity loss 30 inches to 20 inches, 109 f.s. or 11 f.s. per inch.

*Note for interesting comparison. This 11-inch barrel offers about the same length of rifling as the .357 S&W Magnum revolver with 8¾-inch barrel. Magnum bullet weighs 158 grains. The rifle offers about 900 f.s. greater velocity.

Load No. 4A—This load is identical with above except that Western 8½ noncorrosive primers were used in place of the FA 70.

A	B	C	D
30	51	14	3051
26	79	22	2985
24	76	34	2937
20	46	12	2849

Velocity loss, 30 to 20 inches, 202 f.s. or 20 f.s. per inch.

Load No. 5—Bullet: 150-grain .30-'06 cupronickel full jacket. Primer: FA 70. Case: SL 42. Powder: 18.0 grains Sporting Rifle No. 80 bulk powder. This is the famous Whelen, very accurate small-game load. Firing results below:

A	B	C	D	E	A	B	C	D	E
30	39	16	1559	xxx	16	64	17	1524	13
29	13	4	1567	+8	15	19	5	1494	30
28	24	6	1568	+1	14	87	25	1475	19
27	16	7	1559	9	13	157	41	1419	56
26	48	10	1561	+2	12	87	31	1405	14
25	21	8	1524	37	11	72	18	1351	54
24	42	17	1521	3	10	54	16	1303	48
23	19	5	1572	+51	9	113	39	1214	89
22	30	11	1558	14					
21	32	13	1543	15					
20	84	24	1580	+37					
19	65	20	1559	21					
18	32	11	1549	10					
17	39	12	1537	12					

NOTE: This load gave highest velocity in 20-inch barrel. In 30-inch barrel loss was 21 f.s. Average velocity gain 20 to 30 inches, 2 f.s. per inch.

Note that the highest velocity is recorded with the 20-inch barrel. This indicates that the light charge burns best in normally short barrels, and gains little during the lengths between 20 and 30 inches. This might throw an interesting light on the subject of light loads in long barrels.

Load No. 5A—This load is identical with the above except that Remington 9½ noncorrosive primers were used in place of the FA 70. Accuracy is not as good—the hot Remington primer seems to over-ignite the bulk powder.

A	B	C	D
30	23	8	1590
26	61	14	1533
24	64	22	1516
20	40	15	1536

Velocity loss, 30 to 20 inches, 54 f.s. or 5½ f.s. per inch.

Load No. 6—Bullet: 218-grain Cramer gascheck cast one to ten, tin and lead, and sized to .3085 inch. Extensive tests by A. J. E. Shay, who developed this load, indicate normal one-inch groups at 100 yards when the bullet is sized to groove diameter of the barrel. When sized to .311 inch, group size doubles. Primer: FA 70. Case: SL 42. Powder: 33.5 grains IMR 4895, lot 27277. Firing results below:

A	B	C	D	E	A	B	C	D	E
30	133	51	1783	xxx	18	20	7	1668	43
29	102	32	1779	4	17	90	26	1674	14
28	22	8	1792	+13	16	83	23	1640	34
27	105	39	1797	+5	15	16	4	1600	40
26	94	30	1795	2	14	42	12	1571	29
25	141	58	1758	37	13	47	14	1537	34
24	49	14	1711	47	12	63	16	1478	59
23	98	29	1731	+20	11	84	22	1425	53
22	56	16	1674	57	10	88	24	1376	49
21	123	36	1689	+15	9	70	21	1275	101
20	117	33	1704	+15					
19	31	11	1731	+27					

Velocity loss, 30 inches to 20 inches, 79 f.s. or 8 f.s. per inch.

Comment: Of all loads tested, this was the only one to leave unburned powder in the bore and case at the very short barrel lengths. At eleven inches, several split and unburned grains were left in the bore, and a few were left in the case. At nine inches, unburned but split and degraphited grains left in the case averaged 15-per-round with another eight grain-sections left in the bore. Pressure is evidently too low for this powder.

Load No. 6A—This load is identical with the above except that Western 8½ noncorrosive primers were used in place of the FA 70.

A	B	C	D
30	87	24	1784
26	45	13	1770
24	54	21	1715
20	29	9	1733

Velocity loss 30 to 20 inches, 51 f.s. or 5 f.s. per inch.

Load No. 7—This was the control load. It is factory-load by Twin Cities, issue APM2, with 166-grain armor-piercing bullet. Loading lot number 18283 of 1942. Powder is IMR 4895.

A	B	C	D	E	A	B	C	D	E
30	68	18	2744	xxx	18	59	18	2552	49
29	92	27	2732	12	17	87	24	2529	23
28	42	10	2746	+14	16	66	24	2467	62
27	34	12	2715	31	15	78	24	2426	41
26	24	12	2693	22	14	21	7	2412	14
25	41	15	2695	+2	13	54	17	2335	77
24	70	22	2676	19	12	68	30	2291	44
23	68	19	2652	24	11	73	22	2186	105
22	48	18	2637	15	10	48	17	2111	75
21	71	20	2601	36	9	38	10	2025	86
20	67	23	2618	+17					
19	23	8	2601	17					

Velocity loss, 30 to 20 inches, 126 f.s. or 12½ f.s. per inch.

The following factory-loaded ammunition was fired at key lengths of barrel for comparison. Both sporting and military loads were used. Note particularly the amazing uniformity of the old February 1912 Winchester .30-'06 150 grain despite the 37½-year age at time of firing and the loading with good old obsolete nonprogressive-burning Pyro D. G. powder. In firing several hundred rounds of this, not one primer leak or split neck was found, despite its great age.

180-grain Sporting Bullet: Remington 180-grain Core-Lokt. Remington factory loaded in 1948 with 9½ noncorrosive primer and modern progressive-burning powder.

KEY to columns of figures in tables

A: Barrel length (inches)
B: Extreme velocity variation (f.s.)
C: Mean velocity variation (f.s.)
D: Mean velocity (f.s.)
E: Velocity loss last inch of barrel (f.s.)

A	B	C	D	A	B	C	D
30	36	9	2702	11	101	23	2160
26	43	10	2662	10	79	27	2101
24	76	22	2621	9	41	12	2005
20	56	21	2570	Velocity loss, 30 to 20 inches,			
12	68	22	2260	132 f.s. or 13 f.s. per inch.			

220-grain Sporting Bullet: Remington 220-grain Core-Lokt. Remington factory-loaded in 1948 as above load.

A	B	C	D	A	B	C	D
30	53	22	2315	11	99	27	1881
26	29	5	2311	10	52	16	1788
24	40	10	2281	9	79	24	1728
20	76	27	2234	Velocity loss, 30 to 20 inches,			
12	29	10	1961	81 f.s. or 8 f.s. per inch.			

Winchester .30-'06 1912 Contract Bullet: 150-grain cupro-nickel full jacket. Powder: Government Pyro D. G. Cases marked with date 2-12. Ammo taken from sealed boxes.

A	B	C	D	A	B	C	D
30	64	20	2728	11	82	21	2228
26	46	7	2633	10	50	14	2161
24	27	7	2653	9	33	11	2057
20	16	6	2582	Velocity loss, 30 to 20 inches,			
12	73	21	2312	146 f.s. or 14½ f.s. per inch.			

F. A. 1929 Palma Match Bullet: FA 173-grain 9-degree boattail uncannelured. Primer: FA 70. Powder: 49.8 grains IMR 1186, lot 1619. Above data from the box labels which rates instrumental velocity (24-inch barrel) at 78 feet, 2700 foot-seconds. Velocity difference can be credited to individual barrel.

A	B	C	D	A	B	C	D
30	36	14	2654	11	70	25	2171
26	44	12	2640	10	51	14	2065
24	83	27	2616	9	98	33	1984
20	52	14	2606	Velocity loss, 30 inches to 20			
12	65	18	2289	inches, 48 f.s. or 5 f.s. per inch.			

F. A. 1929 National Match Bullet: FA 173-grain 9-degree boattail, uncannelured. Primer: FA 70. Powder: Several lots of IMR 1186 were used, charge varying, according to Frankford Arsenal, from 49.8 grains to 50.7 grains. All loads rated the same as Palma of that year except that Palma was supposed to be a better grade of components.

A	B	C	D	A	B	C	D
30	94	22	2691	11	69	18	2190
26	88	25	2633	10	114	47	2096
24	85	29	2628	9	77	22	1995
20	66	19	2578	Velocity loss, 30 to 20 inches,			
12	116	33	2283	113 f.s. or 11½ f.s. per inch.			

F. A. 1935 National Match Bullet: FA 173-grain 9-degree boattail cannelured. Power: 48.8 grains IMR 1185. Ammunition lot FA 1846. FA rating *(Continued on page 42)*

"See You at the NRA Convention in FRISCO"

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PICK UP YOUR PEN

By JOSEPH B. STEVENS

ARE WE REALLY making any headway against anti-firearms legislation? Every year regulatory firearms measures are defeated, only to be reintroduced at the next session of the law-making body by someone or some group who still believes that the law is necessary. Why don't they learn? In all the outdoor magazines, anti-firearms laws are denounced and the denunciations are backed by good, logical reasoning. So why don't they learn? Simple. They do not read the outdoor magazines so they do not understand our point of view. There are many people who are not interested in hunting and fishing or guns, and there is no good reason why they should read publications devoted to these subjects any more than a gun nut should be expected to read the fashion magazines.

A women's group holds a meeting at which Mrs. Brown tearfully tells the tale of how her son was injured while he and a companion toyed with a loaded gun. Therefore guns are bad and something should be done. A resolution is passed and every member of the group writes a letter to her representative. The lawmaker, faced with a hundred letters from voting women, is not apt to disregard them. If he knows little or nothing about guns, the idea of a regulatory firearms law may seem like a good idea and he isn't necessarily going to investigate to see if there are other aspects to be considered. Instead he will introduce his bill.

The anti-firearms advocates are doing a better job than we are, and the sooner we face that fact, the better we will be able to retain the right to our arms. Every year the regulations against firearms increase and it is very difficult to have a law removed from the books. When a bill becomes law it seems to take on an abundance of inertia and it is not likely to be repealed or amended without considerable trouble.

The anti-firearms people use means which we overlook to educate the public to their point of view. They spread their doctrines in the newspapers and magazines by sending letters to the editors. Articles against firearms are never published in the outdoor journals. Instead they find a home on the pages of the general magazines—the magazines which reach the great group of non-shooters. The non-shooting public gleans its meager store of information about guns from these biased articles and letters and in a short time they have formed a violently anti-firearms attitude. Since they are not particularly interested in guns, they do not acquaint themselves with the shooter's point of view published in the outdoor magazines.

It is our job to see that they are familiarized with the other side of the story. When a missionary goes into the field to spread the gospel, he does not go where the people have already been converted. Instead he goes where the people are unbelievers. We must follow the same course. The 'Letters to the Editor' columns in the newspapers and magazines are open to us as well as to the anti-firearms groups and if we are to stem the rising tide of anti-gun laws, we must make use of them to reach the non-shooting and anti-firearms population. The articles on our right to own weapons, which appear in gun magazines, are excellent but they are in the wrong magazines. They are reaching those who already believe.

Not only must we defend our right to keep and bear arms but we must also attack the laws which infringe this right. A passive defense may keep things from becoming worse but our purpose should be to improve the existing situation. Some of the laws should be repealed and this can only be done by attack. The means are open to us as they have always been open. But we have been slow in discovering them.

Only a small part of the shooting fraternity has ever written a letter to his congressman. Fewer still have taken the time to write intelligent letters to editors denouncing articles published in their periodicals. Writers have been choosing the easy course by sending their articles to the outdoor magazines where they are more apt to find a warm reception instead of flooding the offices of the general magazines where acceptance may be less likely but publication more effective.

Our ideas and our ideals must be made to reach a more general audience. Also our consolidation as shooters should be stronger. Just because you are a skeet shooter, don't ignore a law designed to abridge the rights of the pistoleer or the rifleman. Remember, each step taken by the anti-firearms groups brings them closer to their goal—a non-shooting country. The pen is stronger than the sword—and the gun, too. So lay that pistol down and pick up your pen in defense of your rights. ♦ ♦ ♦

You Ought to Know...

The Director of Civilian Marksmanship

The National Board for the Promotion of Rifle Practice

This is the first of a series intended to give members of the National Rifle Association of America an intelligent understanding of the organization and operations of the NRA and of those cooperating agencies which directly and indirectly affect the activities and progress of the organized shooting game in America. Later articles will deal with the Olympic Games and International Shooting Union championships; the National Matches and registered tournament program; legislative bodies and firearms laws; the NRA's administrative organization and budgeting procedures, and similar topics. Suggestions for other subjects will be welcomed from any member.

THE NATIONAL RIFLE ASSOCIATION of America is unusual among sportsmen's organizations in two respects. (1) Its primary effort is in the direction of using a sport to provide practical training for our national defense, and (2) it has been given a quasi-governmental status by the Congress.

Because of these unusual conditions there is always confusion in the minds of the public, and even among NRA members, as to where the activities and responsibilities of the NRA end and the activities and responsibilities of the Department of the Army's National Board for the Promotion of Rifle Practice and the Director of Civilian Marksmanship begin.

At the risk of over-simplification it might be said that the NRA is the salesman and advertising agency for small-arms training in America while the National Board and DCM provide some of the 'sales stimulators' required to aid the promotion effort.

The DCM sales and issues of .30-'06 rifles, ammunition, and targets to the NRA's senior rifle club members are invaluable in getting new clubs off of paper and onto the firing line. Many junior clubs would never get started at all if the initial expense for range construction, rifles, and ammunition was not reduced materially by the loan of rifles and issue of enough .22 ammunition to begin a training program.

By assisting with the transportation of American international teams, by paying portions of the expenses incident to the national championships (even when National Match appropriations on a large scale are not available), and by awarding qualification badges and Distinguished badges to civilians, the National Board and DCM contribute directly and materially to the general promotion of small-arms training in the United States.

On June 3, 1916, the President signed America's first comprehensive law covering a broad program for military and naval preparedness. Altered from time to time in succeeding years, it is now referred to as the National Defense Act of 1916, as amended.

The National Rifle Association of America had then been preaching the gospel of individual marksmanship training for Regulars, Guardsmen and civilians for forty-five years. The value of its efforts had first been recognized by Congress in

1902 when the NRA's annual national rifle championships had been recognized by Congress and made a part of the official National Matches established in that year. The same law authorized the Secretary of War to appoint a National Board for the Promotion of Rifle Practice which was to include representatives of the NRA in its membership.

In the act of March 3, 1905, Congress authorized the sale of rifles, ammunition, and equipment for target practice purposes. The act of April 27, 1914, authorized issues to civilian rifle clubs and schools.

In the National Defense Act of 1916 the Congress inserted an entire section (Section 113) under the title "Encouragement of Rifle Practice", directing the Secretary of War to submit annually to Congress his recommendations for a broad program of range construction and maintenance, for the detailing of Regular and National Guard personnel as small-arms instructors, and for the issue of rifles and ammunition. Several subsequent amendments have materially broadened the authorized program.

Under the authority of Section 113 the National Board for the Promotion of Rifle Practice was continued as an advisory board to the Secretary of War and the Office of Director of Civilian Marksmanship was established on December 13, 1916. Under the law the DCM may be either an Army or Marine Corps officer. Annual Congressional appropriations for the general promotion of small-arms practice (other than the regular training of the Armed Forces of the United States) and for the operations of the Office of the Director of Civilian Marksmanship are made to the National Board for the Promotion of Rifle Practice. The DCM normally serves as Executive Officer of the NBPRP.

From 1914 until 1919 requisitions from NRA civilian clubs were sent to the Adjutants General of the respective states. When approved by the Adjutant General they were forwarded to the Ordnance Department to be filled. In 1919 the procedure was changed so that issues could be expedited by having the club, wherever located, send its requisition to the DCM for approval and forwarding to Ordnance arsenals. In June 1920 the Ordnance Department turned over to the DCM all records of issues, bonds, etc.

From the above outline it is evident that—

(1) The Congress has recognized the NRA as a quasi-governmental organization since 1902.

(2) The establishment of the National Board for the Promotion of Rifle Practice and the Office of the Director of Civilian Marksmanship are both the direct result of the NRA's continuing effort to promote small-arms training in the Armed Services and among civilians.

(3) Although the NRA may properly urge Congress to appropriate funds for the promotion of small-arms practice, the funds are appropriated to the National Board for the Promotion of Rifle Practice and that Board, not the NRA, controls the expenditure of the money.

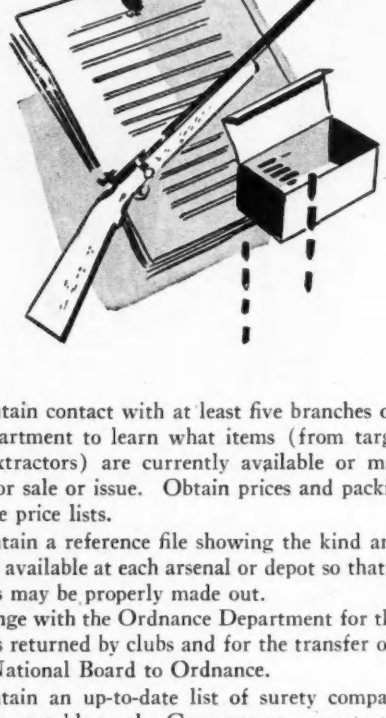
(4) The officers and civilians who operate the National Board and DCM offices are Department of the Army personnel, located in Department of the Army offices and are in no way connected with NRA operations. Currently the National Board and DCM offices are about two-and-a-half miles from the NRA offices. Mail for the two organizations goes through different subdivisions of the Washington Post Office.

The degree of day-to-day cooperation between the NRA and the DCM or NBPRP naturally depends to a considerable extent on the personalities of the officials involved. At this time cooperation is very close and this condition has usually prevailed in the past.

There are twenty-one members on the National Board for the Promotion of Rifle Practice. They are appointed by the Secretary of the Department of the Army. Mr. Archibald S. Alexander, the Assistant Secretary, is President of the Board. It includes in its membership representatives of the Armed Forces of the United States, the Coast Guard, the NRA, and the country at large.

Colonel James F. Strain currently serves both as Executive Officer of the Board and as Director of Civilian Marksmanship. The number of employees available to do the work in the National Board and DCM offices depends not only upon the annual appropriations made by Congress but also on the general personnel policies of the Department of Defense. It is therefore not possible for Colonel Strain to increase or decrease his working force quickly on the basis of sudden increases or decreases in the amount of work that his office has to handle. This inflexibility of personnel in the DCM office and in the arsenals (even when 80,000 orders are received within one month!) is one of the major causes for the irritating delays which have so often occurred since the war in the handling of sales and issues to civilians.

Have you thought of the DCM as having nothing to do but OK the sale and issue of arms and ammunition to a comparaitvely small fraction of the NRA's membership? If so, think again! Here are some, but not all, of the jobs that the Executive Officer of the National Board and DCM must constantly do—



1. Maintain contact with at least five branches of the Ordnance Department to learn what items (from target carriers to spare extractors) are currently available or may soon be available for sale or issue. Obtain prices and packing charges and prepare price lists.

2. Maintain a reference file showing the kind and quantity of material available at each arsenal or depot so that orders and requisitions may be properly made out.

3. Arrange with the Ordnance Department for the repair of issued rifles returned by clubs and for the transfer of the funds from the National Board to Ordnance.

4. Maintain an up-to-date list of surety companies whose bonds are acceptable to the Government as protection against the loss of nonexpendable equipment issued to civilian rifle clubs. Advise rifle clubs as to these acceptable bonding companies.

5. Maintain a list of clubs affiliated with the NRA which are eligible for issues and sales. Maintain a record of all issues. Check the requisitions of these clubs to make certain they are filled out in the manner required by the Ordnance Department. Have those corrected which are not in proper form and forward the acceptable requisitions to the proper arsenals.

6. Secure from the clubs annual reports of firing and reports of Government property on hand. Arrange for the return, repair, and replacement of issued material which has been worn out in normal service. Arrange for the survey of, or payment for, material lost or damaged while in the hands of clubs.

7. Issue small-arms qualification badges and 'legs' on Distinguished medals to civilians. Maintain proper records of such qualifications.

8. Maintain an alphabetical index of all NRA members who have purchased arms from the DCM, indicating the date of purchase and the type of gun.

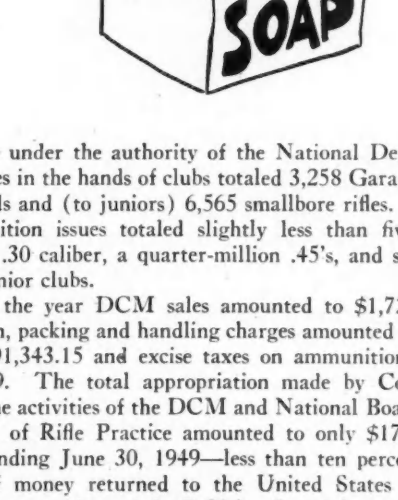
9. Prepare minutely detailed budget estimates of the cost of operating the DCM office and of carrying on the activities of the NBPRP. Revise these estimates, sometimes several times within a few weeks, in order to keep the National Board budget in line with the policies set by the President and the Secretary of Defense for overall defense appropriations. Personally appear before the Budget Committee of the Department of Defense to explain the items in the National Board budget estimates, repeating this procedure every time the budget is revised by higher authority. Eventually, personally appear before the proper Congressional committees to repeat this explanation of the need for the funds requested in the Budget.

10. Handle the paper work connected with the issue of rifles, ammunition, and range gear to secondary schools which maintain cadet units under the provisions of Section 55C of the National Defense Act.

11. Conduct the Army's ROTC Gallery Rifle competitions. The last two items are completely aside from the DCM's work with NRA civilian and junior clubs.

Every one of these varied tasks involves reams of correspondence and official forms; knowledge of endless official regulations, legal decisions and precedents; and a background of working knowledge of guns and shooters. The DCM is a very busy man!

At the end of the Government's fiscal year on June 30, 1949, the Director of Civilian Marksmanship had 'outstanding accounts' of 3,004 civilian clubs and schools to which issues had

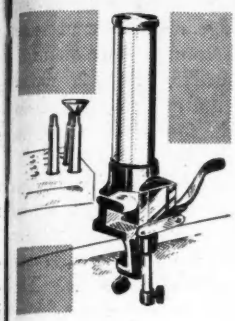


been made under the authority of the National Defense Act. Issued rifles in the hands of clubs totaled 3,258 Garands, 5,57[illegible] Springfields and (to juniors) 6,565 smallbore rifles.

Ammunition issues totaled slightly less than five millio[n] rounds of .30 caliber, a quarter-million .45's, and six millio[n] .22's to junior clubs.

During the year DCM sales amounted to $1,722,259.2[illegible] In addition, packing and handling charges amounted to an est[i]mated $291,343.15 and excise taxes on ammunition came t[o] $42,424.09. The total appropriation made by Congress t[o] carry on the activities of the DCM and National Board for th[e] Promotion of Rifle Practice amounted to only $175,000 f[or] the year ending June 30, 1949—less than ten percent of th[e] amount of money returned to the United States Treasu[ry] through the operations of the DCM. Certainly no other go[v]ernmental agency can approach this record!

C B Lister



LOADS FOR THE .220

This article on .220 Swift loads is another of an important RIFLEMAN *series covering popular rifle and pistol cartridges. Preparation of the material for the article was handled jointly by the NRA's Al Barr and the H. P. White Company of Cleveland, Ohio (see* RIFLEMAN, *November 1948, page 21). Five rounds of each of the loads listed in Table 1, with powder charges measured carefully and bullets weighed to within plus or minus .15 grain, were checked for average velocity figures at 20 feet. The loads were tested for pressure in a 26-inch barrel of .219-inch bore diameter and .224-inch groove diameter, with six narrow grooves of one turn in fourteen inches. They were fired in a Modern-Bond Universal receiver using Winchester copper crushers, with variation in length controlled to .001 inch, and Winchester tarage tables. Velocities were measured on a Potter electronic counter chronograph. Room temperature was maintained at 76 degrees.*

IN THE EARLY 1930's, working to develop a small caliber, super high-velocity cartridge, G. L. Wotkyns, J. B. Sweany, H. A. Donaldson, J. B. Smith, and other conscientious experimenters altered various large-capacity cases to seat .22 Hornet bullets. In 1935 Wotkyns, one of the originators of the .22 Hornet, reported that he had developed a new cartridge called the ".22 Swift" by altering the .250-3,000 Savage case and using the Hornet bullet, and obtained a muzzle velocity of 4,000 foot seconds. It was an announcement high-velocity devotees had been waiting for, inasmuch as the 87-grain bullet in the .257 Roberts, fired at 3,350 feet per second, was the fastest commercial load on the market.

Wotkyns worked closely with both Western and Winchester on the high-velocity .22-caliber project and in September 1935 Winchester announced the .220 Swift cartridge, for which they chambered the Model 54 bolt-action rifle. The production model Swift cartridge differed from Wotkyns' only in the fact that it was evolved from the old 6-mm. Lee Navy case instead of the .250-3,000 Savage case. The Winchester Swift case and the Lee case have the same head diameter and body taper, but differ in some particulars:

1) the Swift case has a considerably stronger wall,

2) the Swift case has a longer shoulder because the caliber is reduced from .236 inch to .224 inch,

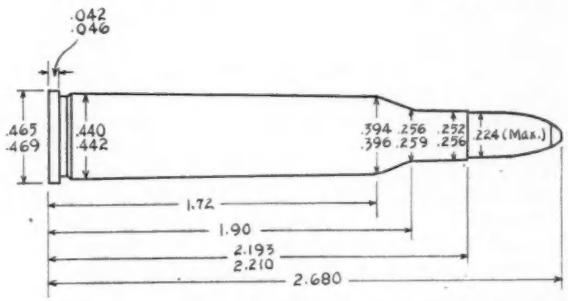
3) the Swift case has a shorter neck,

4) the Swift case is semi-rimmed rather than rimless, thus adapting it to the standard .30-'06 bolt face and extractor.

It is interesting to note that the use of a lighter, shorter bullet made it possible to decrease the twist from one turn in 6½ inches in the 6-mm. Lee Navy to one turn in 16 inches in the .220 Swift. In 1936 the twist was changed to one turn in 14 inches.

The availability of the new commercial Swift round gave the ordinary rifleman a combination of extremely flat trajectory, fine accuracy, and destructiveness which heretofore had been available only to the advanced experimenter. The Swift still gives the highest muzzle velocity of any commercial cartridge.

When the Swift cartridge was first introduced, it was loaded with three different types of bullets: 46-grain hollow point with a muzzle velocity of 4140 feet per second, 48-grain soft point at 4140 feet per second, 55-grain soft point at 3720 feet



This drawing gives maximum and minimum dimensions of the .220 Swift cartridge. Figures are averages of measurements of ten commercial loads

per second, and 56-grain hollow point at 3690 feet per second. In recent years the 46-grain and 56-grain hollow points, and the 55-grain soft point have been discontinued.

The Model 54 rifle chambered for the Swift was discontinued late in 1936 and replaced by the Winchester Model 70 on January 1, 1937. These two rifles have been the only commercial arms made for the Swift by gun manufacturers, although the Swift is such a popular cartridge that practically all of the better-known custom gunmakers are prepared to furnish rifles in the caliber.

The .220 Swift cartridge is responsible for some inconvenience to reloaders. In August 1936, a short article published in the RIFLEMAN gave the .220 Swift cartridge (as far as the handloader is concerned) a reputation it has not lived down to this day. The well-known handloader who wrote the article said, "This Swift is the most finicky, pernickety, or whatever you want to call it, cartridge in the world! Everything about the load must be exactly right. It follows no accepted rules or traditions of reloading. Pressures are necessarily high to obtain the almost unbelievable results we have learned to expect from it."

A lot has been learned about the cartridge since. It is true that .220 Swift pressures, even in commercial loads, run high, to a maximum of 55,000 pounds. But pressures may run as high as 58,000 pounds in the .270 Winchester or 56,000 pounds in the .300 H&H Magnum. Well might the handloader ask why the Swift should be a more finicky cartridge to reload than others developing fully as much, or more, pressure.

In all calibers above .22, internal barrel dimensions are held to rather close tolerances. For example, practically all

barrels in .25 caliber have a groove diameter of .257 inch; in .270 caliber, a .278-inch groove diameter; and barrels in .30 caliber, .308-inch groove diameter. These dimensions seldom vary more than plus or minus .001 inch. There is a different story for the .22 caliber though. Bore and groove dimensions vary considerably. It is not uncommon to find a .22 barrel having a bore diameter of .216 to .217 inch, and a groove diameter as small as .220 to .221 inch. Most barrels of these dimensions are for the .22 rimfire cartridge. Normal barrel dimensions for the .22 Hornet are slightly larger, with groove diameter frequently around .222 to .2225 inch. Many of the early .220 Swift commercial barrels were made with .222- to .223-inch groove diameter. These are the variety of barrels handloaders were working with soon after the .220 Swift cartridge became a reality.

Individual gunsmiths would sometimes use .22-caliber rimfire barrels or other sub-diameter barrels in making up guns for the Swift. Then someone would work up a load for the Swift and it would be safe in a gun with a barrel of inside dimensions near bullet diameter. Anyone else who used the same load in a sub-diameter barrel would run into excessive pressure. This fact has been known for years by the experienced handloader. Even today, however, many gunsmiths will unknowingly, or for some other reason, use any kind of barrel in rechambering for the .220 Swift cartridge. We might add, that in respect to bore and groove diameter in relation to bullet diameter, the .220 Swift is no more finicky than any of the other high-velocity .22's. We can also add that with sub-diameter barrels for any other caliber in which pressure and velocity are high, the same conditions would exist there also. The relationship between bore and groove diameter seems to be almost directly related to velocity. A good example is the .22 Hornet, which usually performs very well in barrels having .217-inch bore and .222- to .225-inch groove diameter. When a Hornet barrel is rechambered for a more powerful cartridge developing higher velocity, inaccuracy frequently results and even normal loads cause excessive pressure. Even intermediate cartridges such as the 2-R Lovell and Zipper, among others, will give erratic results when maximum loads are used in .22 Hornet barrels. Undoubtedly, powder companies learned of these variables early and probably the .220 Swift can be blamed for the discontinuance of the practice of issuing recommended loads for each brand of powder. The time the last data published by powder companies coincides closely with the time the .220 Swift was developed.

Knowing of these conditions, we were not surprised at some of the informative data obtained when running pressure and velocity tests for the .220 Swift cartridge. The first pressure barrel for the .220 Swift cartridge had a normal bore diameter of .2182 inch, but a groove diameter of .223 inch. On top of that, the land area was greater than the groove area of the barrel. The land width for each of the four wide lands was .095 inch and the groove width for each groove was .072 inch. This type of barrel adds to high pressures when using heavy loads in the .220 Swift and similar cartridges. The actual number of grooves is not too important so long as the lands are noticeably narrower than the grooves and so long as groove diameter is approximately the same as bullet diameter. The same type of barrel, used for the first pressure tests in the Swift, performed normally with the .22 Hornet cartridge at its lower pressure and velocity level.

After running some tests with the tight .220 Swift barrel, a second one was fitted to the pressure gun. This barrel had six narrow lands and six wide grooves with a groove diameter of .224 inch. The bore diameter was .219 inch. Both barrels had a rifling twist of one turn in 14 inches.

We may now look at some comparative figures in Table 2. Knowing that two different barrels would be used in the test, ten rounds of each load were made up. First, five rounds of each of the five loads were fired in the tight barrel and the remaining five of each load were later fired in what we might call a standard barrel for the .220 Swift. Since there were no variables in the barrels except for internal dimensions, the variation in pressure and velocity figures for each load in each of the two barrels should need no further explanation. Of importance is the fact that many Swift owners have barrels with dimensions conforming closely to the No. 1 pressure barrel, therefore, the loads listed in Table 1, some of them at least, should undoubtedly give higher pressure than they did in the No. 2 standard pressure barrel. Therefore, any load listed as maximum or near maximum should not be used arbitrarily. The heaviest handloads, including the commercial load listed in Table 1, will undoubtedly cause quite high pressure in tight barrels, resulting in extremely flattened primers, noticeable pressure marks along the sides of the cartridge case near the solid head, and undue swelling of the cartridge case near the solid head in slightly over-sized chambers.

As a result of the .220 Swift pressure and velocity test, we can point out why no one should ever recommend a maximum load for the Swift or for any other cartridge developing high velocity and high pressure. Too, the results obtained indicate the reasons why the .220 Swift barrel of Winchester make is

Table 1: Velocity and Pressures for .220 Swift Loads

Load	Weight (grains)	Bullet Type	Bullet Diameter (inch)	Seating Depth (inch)	Powder Charge (grains)	Powder Type	Lot No.	Primer	Case Make	Velocity	Pressure	Remarks
1	29	60A Kirksite	.2255	.17	42.0	3031	97	Rem. 9½	Rem.	4664	56,560	Max. load
*2	29	60A Kirksite	.2255	.16	40.0	3031	97	Rem. 9½	Rem.	4619	.....	M70 rifle
3	50	Sierra S.P.	.224	.13	38.0	4895	27277	WRA 120	Western	3849	54,520	Near maximum
4	50	Sierra S.P.	.224	.13	34.5	HiVel 2	.....	WRA 120	Western	3531	42,200	Mild load
5	50	Sierra S.P.	.224	.13	38.0	4895	2192	Rem. 9½	Rem.	3846	46,920	Good load
6	50	Sierra S.P.	.224	.13	37.0	HiVel 2	.....	WRA 120	WRA	3791	47,680	Good load
7	55	Sierra S.P.	.224	.16	38.5	4064	52	Western 8½	Western	3864	55,066	Maximum load
8	55	Sierra S.P.	.224	.16	36.5	4895	27277	WRA 120	Western	3688	47,820	Good load
9	55	Sisk Express	.224	.13	34.5	HiVel 2	.....	Rem. 9½	Rem.	3511	41,600	Mild load
10	55	Sisk Express	.224	.13	42.0	4350	16	WRA 120	WRA	3663	46,240	Accurate
11	62.6	Sisk Niedner	.224	.21	36.0	4064	52	WRA 120	Western	3480	48,360	Near maximum
12	62.6	Sisk Niedner	.224	.21	40.0	4350	16	WRA 120	WRA	3422	47,340	Good load
*13	55.0	Cramer G.C. 60 H.P.	.225	.32	12.0	4198	30	WRA 120	WRA	1609	.....	Very accurate
*14	44.0	Ideal 225438 G.C.	.2265	.21	13.0	4759	2C	WRA 115	WRA	2242	.....	Fair accuracy
*15	44.0	Ideal 225438 G.C.	.2265	.21	12.0	2400	.....	WRA 115	WRA	2191	.....	Good accuracy
16	48.0	Commercial load	.....	...	....	.....	.....	.....	.....	3980	52,340	Factory loading

* Fired in standard Model-70 Winchester.

Handloading Manual

Beginning and experienced reloaders will welcome publication of *Handloading*, an NRA manual containing reprints of the handloading articles which appeared in THE AMERICAN RIFLEMAN during 1949. The 108-page booklet is an excellent introduction to the practice of loading ammunition, covering the important subjects of selecting a loading tool, bullet-making, and the manufacture and characteristics of modern gun powders. To the experienced handloader, the manual offers the most complete listing of full and reduced power loads, with both lead and jacketed bullets, for eight popular rifle cartridges and .38- and .45-pistol ammunition, which is available today. Also, the booklet contains a chapter on reloading shotgun shells.

Handloading is available from NRA Book Service, 1600 Rhode Island Avenue, N. W., Washington 6, D. C., for seventy-five cents.

held to such rigid tolerances. As far as we can learn, groove diameter is very close to .224 inch and land width is noticeably less than groove width. Any custom-made barrel, when held to proper tolerances in relation to bullet diameter, will give as uniform and satisfactory results as the Winchester barrel.

Another condition exists when using oversized bullets at high velocity and high pressure in tight barrels. Very frequently groups are large and there will be a lead-colored comet tail around the bullet hole. A good check for it is to use a bullet with noticeable lead exposed at the point, shoot it with heavy loads at short ranges, and then examine the target. The same effect will not always be noted at longer ranges. There is good evidence that the lead core has partially melted, or that the bullet is shedding its point. We have never had the condition occur when using barrels of standard dimensions. Neither have we noted the effect with lower-velocity cartridges such as the Hornet and Bee. The comet-tail effect on the target was noted by one shooter using regular factory 170-grain ammunition in an 8-mm. sporting rifle. He was firing at 50 yards. A suggestion to check on groove diameter of his custom-built rifle gave the answer. It was .319 inch and bullet diameter was .323 inch. The load was very inaccurate in the barrel.

During tests with the No. 1 pressure barrel, quite a few of the lead-tipped bullets showed a lead spray around the bullet holes at 25 feet. One unexplainable thing happened in firing load No. 1 with a cast Kirksite bullet. The load was used in the tight barrel for the amazing velocity figure of 4808 foot-seconds velocity. The bullet was noticeably oversize, .2255 inch, yet there was no sign of the bullet melting or going to pieces. The bullet was lubricated and did not have a good heat-conducting copper-alloy jacket around it.

One curse which has been put on the .220 Swift cartridge is that cases stretch noticeably and brass thickens in the neck. In this respect, it may be important to say that when comparing the chambers of the two pressure barrels, we found less clearance at the neck for the standard No. 2 barrel than for the No. 1. In the No. 2 standard barrel, neck clearance was only .002 inch maximum. Case thickness at the neck is important in extremely close chambers, and neck thickening may occur more readily in the Swift than in other .22 cartridges. Experience has indicated that considerable taper of the case, plus a gentle shoulder angle, add to thick necks and case stretching. The same condition exists for the .257 Roberts, .270 Winchester, and other cartridges which develop high pressure with maximum loads. The .220 Swift case should never be longer than 2.205 inch, but there is no reason to shorten it more than .005 inch under this figure.

The amazingly strong .220 case has undoubtedly compensated for some of the errors of the handloader, which is one reason why there are very few reports on .220 Swift rifles being blown up with handloads. Further, the cartridge was designed only for the strongest, most dependable bolt-action rifles. It should never be used in any lever action with maximum loads.

Load 1 in Table 1 shows the velocity we can get with a Kirksite cast bullet at a safe working pressure. The same load used on chucks was found inadequate, in spite of its velocity. The hard Kirksite bullet, even in hollow-point form, would not expand properly and it was particularly bad about ricocheting.

Something else we would like to point out is the variation in loads No. 3 and No. 5. Both used the same amount of 4895, but note the difference in pressure although there was little difference in velocity. A variation in case capacity could be the reason for pressure differences, as the Remington case was used in load No. 5 and the slightly smaller capacity case by Western was used for load No. 3. Here again is a point of importance. Some cases in the same caliber hold more powder than others, which is something worth remembering when working with near-maximum loads.

Judging by results obtained with load No. 7, it would seem that IMR 4064 is still probably the best powder to use in the .220 Swift. One exception would be with heavier bullets such

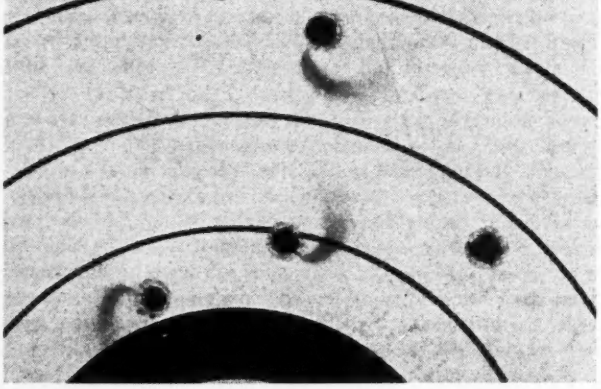
Manufacturers' Specifications for .220 Swift

	46 grain Hollow Point	*48 grain Soft Point*	*56 grain Hollow Point*	*55 grain Soft Point*
	Velocity, Foot Seconds			
Muzzle	4,140	4,140	3,690	3,720
100 Yards	3,370	3,490	3,090	3,250
200 Yards	.....	3,040	.....	.....
300 Yards	.....	2,570	.....	.....
	Striking Energy, Foot Pounds			
Muzzle	1,750	1,825	1,695	1,690
100 Yards	1,160	1,300	1,190	1,290
200 Yards	.....	985	.....	.....
300 Yards	.....	705	.....	.....
	Midrange Trajectory, Height, Inches			
100 Yards	0.3	0.3	0.4	0.35
200 Yards	1.5	1.5	2.0	1.5
300 Yards	4.5	3.5	4.5	4.5
	Sighting In, Iron Sights, Inches			
100 Yards	1.5 High	1.5 High	2.0 High	1.5 High
200 Yards	On Aim	On Aim	On Aim	On Aim
300 Yards	7.5 Low	6.0 Low	8.0 Low	7.0 Low
400 Yards	32.0 Low	19.5 Low	32.0 Low	22.0 Low
500 Yards	76.0 Low	46.0 Low	73.5 Low	49.0 Low

as the 63-grain Sisk. Those we used weighed out at exactly 62.6 grains. With 40 grains of 4350 we had quite good velocity, but almost equally good results were obtained at only slightly higher pressure with 4064, as indicated in load No. 11. The particular bullets used in loads No. 11 and No. 12 are not so accurate when too much powder is used. It is, though, a very fine bullet when used with approximately 32 grains of 4064, when the velocity should be close to 3200 foot-seconds. This particular load has been recommended for match shooting with the Swift.

In an attempt to get a few good gascheck loads in the .220 Swift, too much powder was used for loads No. 14 and No. 15. Undoubtedly these loads would be more accurate by reducing the powder charge 1½ to 2 grains each. The best combination for the gascheck bullet was load No. 13, which could be increased 1½ grains in many rifles.

There do not appear to be many low-velocity gascheck loads for the .220 Swift. Probably one of the reasons is that the Swift is best adapted to high-velocity loads with jacketed bullets. A good load which has been developed for the Swift is 20 grains of Hercules No. 2400 with 45-grain soft-point



Elmer Keith sent us this classic example of 'comet tails' on a short-range target. Chances are, bullet jacket is too thin to stand friction in barrel

bullets; a lighter load consists of five grains of Hercules Unique. With ten grains of Hercules Unique, the 55-grain Sisk Niedner has given good results in some rifles. With 40- to 45-grain jacketed bullets, 16 grains of 4759 or 18 grains of 4227 have given good results. Another intermediate load used is 23.5 grains of 4759 with 50-grain bullets.

The best cast bullets we have used in the Swift are the Ideal 225438 gascheck or the Cramer No. 60 hollow point, weighing about 55 grains. These bullets have given very good accuracy.

One medium-velocity load which undoubtedly will work in quite a few .220 Swift rifles is 32 grains of IMR 3031 with 45-grain Hornet bullets. It is a favorite short-range load used by a number of shooters. A load developed years ago, and one which has been recommended when we have been asked to name a load somewhat under maximum but giving reasonably flat trajectory, is the 55-grain Sisk Niedner bullet using 34 or sometimes 35 grains of IMR 4064. With 34.5 grains, the velocity is 3350 foot-seconds. With the Sisk Niedner bullet, the load is very dependable in the field. If the same load were used in the Swift with a tougher jacketed bullet intended for maximum loads, it probably would not expand too well. When using intermediate or lighter loads, bullets designed for lower velocity loads such as the Hornet or Zipper should be used. The tough, 48-grain jacketed bullet does not work well with the reduced loads—that is, it doesn't always expand properly.

Ever since the .220 Swift came into existence, a contro-

Table 2: Tight vs. Standard Barrel

Load	*Weight (grains)*	*Bullet Type*	*Velocity Tight Barrel*	*Velocity Standard Barrel*	*Pressure Tight Barrel*	*Pressure Standard Barrel*
1	29	Kirksite	4808	4664	66,900	56,560
3	50	Sierra	3949	3849	60,520	54,520
4	50	Sierra	3682	3531	48,840	42,200
7	55	Sierra	3897	3864	67,500	55,066
16	48	Commercial	4044	3980	64,360	52,340

versy has raged about whether or not it is suitable for big game as well as varmint shooting. That controversy is still going on. Should we have suitable bullets for every purpose, possibly the Swift would meet most requirements. But the fact cannot be overlooked that the light bullet at extremely high velocity loses its velocity very rapidly, as indicated in the manufacturers' specifications, which are only relative. They do give an indication of the importance of bullet shape in relation to velocity in the .220. With an open-point bullet, a lot of velocity is lost rapidly over the first few hundred yards.

For any long-range shooting, a pointed or spitzer-type bullet should be used. Even the heavier bullets with relatively low muzzle velocities catch up with the lighter ones over long ranges. One of the disadvantages of the Swift comes with using at long ranges a bullet constructed strongly enough to withstand the velocity to give fine accuracy. When the bullet reaches the target, velocity has been lowered so much that it will not expand properly. One redeeming feature is that when these tough bullets are used in the Swift at long ranges on medium game, they have lost enough of their velocity to give adequate penetration. Therefore, it is reasonably obvious that on deer and similar game the .220 Swift may perform better beyond 200 yards than at closer ranges. The opposite would be true on small animals like chucks, because the bullet would not expand adequately to give proper killing qualities. Fortunately, some of the bulletmakers are now making bullets with a front end that will expand properly and a solid base section for adequate penetration at any range and at any reasonable velocity. That is the answer to our high-velocity light bullet loads.

The .220 Swift is still an amazing cartridge, as it was labeled at the time of its appearance on the market. It has probably caused more controversy than any other commercial cartridge on the market, except possibly the .270 Winchester, but when properly handled the .220 Swift can be reloaded as easily and safely as any other cartridge available. ◆ ◆ ◆

NEXT MONTH: *Look for picture-story instructions on making a hand-carved holster for that favorite handgun . . . together with a cover that is guaranteed to make six-shooter fans drool. Also, Bob Hutton on a unique 3-in-1 rifle, Al Barr on bull-pup rifles, scattergun champ Rudy Etchen on skeet techniques, Harlan Carter on the problems of .30 caliber target shooting, and another in the Rifleman's series on reloading favorite cartridges.*

LEGISLATIVE Bulletin

A MONTHLY ROUND-UP OF CURRENT LEGISLATION

MANY STATE LEGISLATURES meet only bi-annually, in odd-numbered years. Generally speaking 1950 will be a light legislative year as compared with 1949. Sixteen state legislatures are now in session and several more will convene in the coming weeks. Already there is abundant proof that NRA members will not be allowed to sit back and rest this year after the successful 1949 campaign for good firearms legislation and against gun registration, gun licensing, and all forms of 'police state' firearms controls. Plenty of bad bills are already in the hopper in some of those states whose legislatures have met. The NRA legislative service is busy studying bills, writing state officials, and preparing legislative bulletins for members so that none of these bills will become law in a state without the knowledge and consent of the residents.

To date, the following bills have been introduced and proposed in various states.

CALIFORNIA: State legislature is not in session, however a proposed city ordinance in Santa Monica would prohibit the sale, loan, gift, or furnishing of any firearm to any person under eighteen years of age and would prohibit possession of all firearms and ammunition by such persons. *Action:* NRA members and clubs in Santa Monica are opposing this ordinance before the City Council.

GEORGIA: Senate Bill No. 155 would impose additional restrictions on possession and use of handguns by citizens of Georgia. National Rifle Association members in Atlanta voiced opposition to the bill to Georgia Senator Claude Pittman, who withdrew the bill from the legislature. *Action:* Killed.

Senate Bill No. 175 would repeal Georgia's present law, which requires a license from the County Ordinary to carry a pistol openly or to have a pistol in manual possession outside of one's home or place of business. An NRA legislative bulletin has been sent to all members in Georgia, pointing out the general desirability of this repeal. *Action:* Passed in the Senate.

ILLINOIS: Donald J. Walsh, State Director of Public Safety, Assistant State's Attorney James J. Cherry, and Police Commissioner Prendergast, among others, are studying a firearms registration law or 'Sullivan Law' for Illinois to be presented to the legislature when it meets. The legislature is not now in session and no bill has as yet been written. *Action:* The NRA has had a conference with Assistant State's Attorney Cherry and has proposed a reasonable pistol act to control the possession of pistols by criminals.

KENTUCKY: House Bill No. 24 would amend the deadly weapons statute by reducing the punishment for carrying a pistol or other deadly weapon concealed on or about the person. The new bill would, however, eliminate the word 'concealed' from the language of the statute. *Action:* Reported favorably by the Statutes Committee.

House Bill No. 168 introduced by Chester A. Hammons of Knox Co. would reduce the penalty for the carrying of concealed deadly weapons to a minimum of $10.00 with a maximum fine of $100.00 or 60 days or both.

MAINE: No firearms bills as yet have been presented, however Representative Louis Jalbert of Lewiston has asked the Legislative Research Committee to prepare some kind of registration bill. The Maine Association of Chiefs of Police has also said it supports stricter firearms controls and would present a bill. *Action:* None.

MASSACHUSETTS: House Bill No. 36 would amend the hunting license law to permit minors between fifteen and eighteen to hunt when accompanied by a licensed adult. Unfortunately, the bill employs language that would require junior target shooters to be accompanied by a 'licensed parent or guardian' and provides for confiscation of 'any firearm possessed' by violators. *Action:* Referred to Joint Conservation Committee.

House Bill No. 40 would amend the game code, which prohibits the use of snares, jacklights, motor vehicles, and certain types of firearms for hunting purposes. Primarily it is a restatement of existing law, eliminating a lot of double talk in favor of more easily understood language. The bill specifically excepts target shooting and the carrying of cased weapons for target shooting or other legal purposes. *Action:* Referred to Joint Conservation Committee.

House Bill No. 41 would prohibit anyone other than a law-enforcement officer from discharging any firearm from any state or paved highway or within fifty yards of any such highway or within five hundred feet of any dwelling in use, except with the written permission of the owner or occupant. *Action:* Referred to Joint Conservation Committee.

House Bills No. 42, No. 157, and No. 158 would provide added fines or prison sentences for the negligent use of a firearm resulting in the death or injury of another, or damage to private property. *Action:* Referred to Joint Conservation Committee.

House Bill No. 678 would amend the game code to permit licensed hunters to carry a shotgun or .22-caliber rifle after dark for the purpose of hunting raccoons. *Action:* Referred to Joint Conservation Committee.

House Bills No. 1767 and No. 1768 would prohibit the manufacture and sale of all air rifles or B-B guns. *Action:* Referred to Joint Military Affairs and Public Safety Committee.

House Bill No. 1376, by petition of the Massachusetts Chiefs of Police Association, would prohibit outright the sale or furnishing (giving, lending) of any air rifle or any .22-caliber rifle to any minor under eighteen except in the teacher-pupil relationship for 'instruction and drill'. *Action:* Referred to the Joint Committee on Military Affairs and Public Safety.

Senate Bill No. 319 would provide for minors to purchase firearms and ammunition but only with the written permission of the parent or guardian. This bill would also provide for a statement of parents' responsibility to be attached to every firearm sold. *Action:* Referred to Joint Committee on Military Affairs and Public Safety. (NOTE: An NRA legislative bulletin on all of these bills has been sent to members in Massachusetts.)

NEVADA: State legislature is not in session, however Reno City Ordinance Bill No. 1112 would require the registration of all handguns and would require a police permit to purchase any handgun. The bill was opposed by the Reno Rifle and Pistol Club and by NRA members in Reno. *Action:* Killed.

NEW JERSEY: No bill has as yet been entered in the legislature. Attorney General Theodore Parsons has publicly stated he will present and support a firearms bill calling for wholesale registration and firearms licensing. The State Fish and Game Council, State Federation of Sportsmen's Clubs, and Associated Rifle and Pistol Clubs of New Jersey are opposing the writing of this bill along the lines indicated by the Attorney General. *Action:* None.

NEW YORK: Senate Bill No. 325 provides that possession of firearms without license shall not apply to former members of Armed Forces who have souvenir weapons of military service and who surrender such weapons to the police to be rendered inoperative. *Action:* Referred to Committee on Codes.

Assembly Bill No. 941 would amend the firearms statute to make the illegal sale of a firearm a felony rather than a misdemeanor. *Action:* Referred to Committee on Codes.

Assembly Bill No. 972 provides that in counties of less than 500,000 photographs and fingerprints of applicants for license to sell firearms shall be submitted on original application, but only at five-year intervals for renewals. *Action:* Referred to Committee on Codes. ♣ ♣ ♣

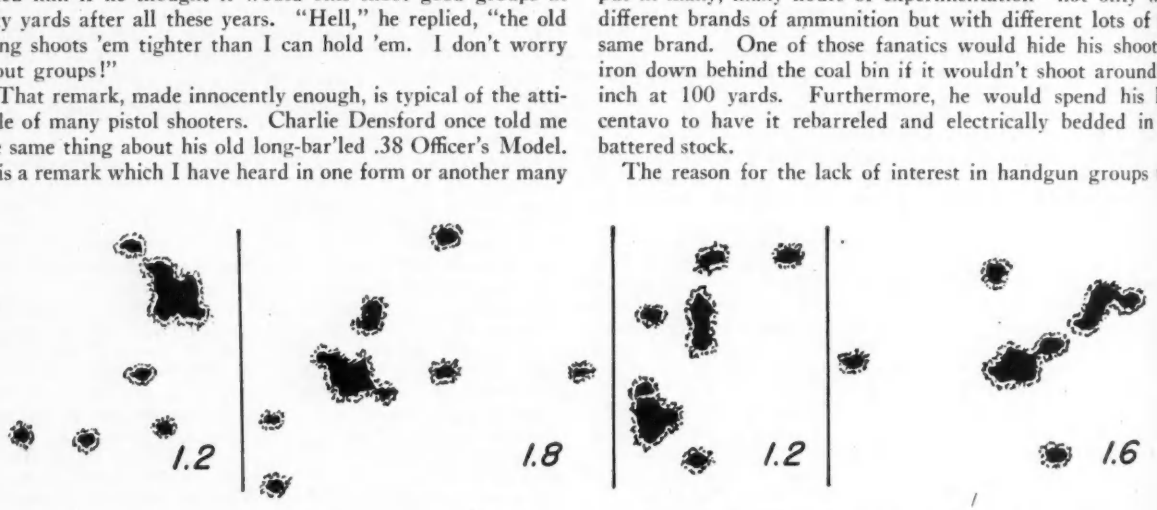
Handguns, Groups, And Bullseyes

By PHIL ROETTINGER

SOME TIME AGO a good friend of mine who happens to be a ranking handgun champion made a remark that set me off on a series of experiments. By ranking champion, I mean that he is one of the two pistolmen who usually make the rest of us feel that we have extreme difficulty in hitting a backhouse with a ball bat—and I am not speaking of Joe Benner. This unidentified champ and I were batting the breeze about this and that. While he fondled his well-worn .22 semiauto, I asked him if he thought it would still shoot good groups at fifty yards after all these years. "Hell," he replied, "the old thing shoots 'em tighter than I can hold 'em. I don't worry about groups!"

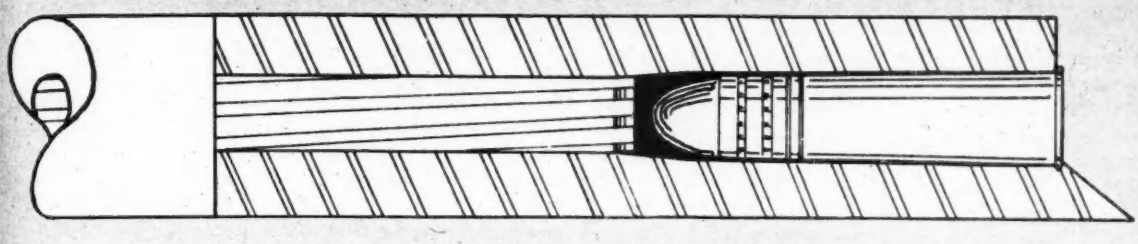
That remark, made innocently enough, is typical of the attitude of many pistol shooters. Charlie Densford once told me the same thing about his old long-bar'led .38 Officer's Model. It is a remark which I have heard in one form or another many times and I must admit that it is very comforting. But stop and think a moment. Did you ever hear that kind of talk from a top-flight smallbore rifle shooter? I can hear Art Jackson, the great 'Cookie', or Charlie Whipple express unconcern about the grouping qualities of their rifles about like I can hear John L. Lewis refer to Senator Taft as brother. The devotees of the belly-shooting game wouldn't think of appearing on the range with a smallbore weapon with which they hadn't put in many, many hours of experimentation—not only with different brands of ammunition but with different lots of the same brand. One of those fanatics would hide his shooting iron down behind the coal bin if it wouldn't shoot around an inch at 100 yards. Furthermore, he would spend his last centavo to have it rebarreled and electrically bedded in its battered stock.

The reason for the lack of interest in handgun groups un-



These ten-shot groups were fired at 50 yards with a 6-inch Match Target Woodsman as it came from factory. Ammunition used was Remington Targetmaster

After cutting barrel of Match Target to 5.15 inches and shortening chamber, the pistol fired these ten-shot groups—all under one inch—at 50 yards



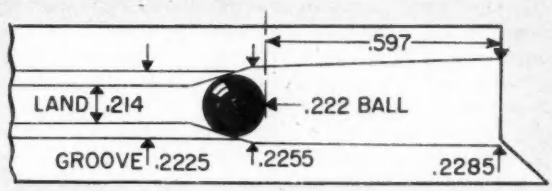
Typical commercial .22 chamber, exaggerated for effect. Space in black must be jumped by bullet before it engages rifling. Mutilation of bullet and off-center tipping may spoil accuracy

doubtedly lies in the fact that it is very difficult for a pistol shooter to test his gun adequately, to find out if it really does plunk 'em in properly. Many a smallbore shooter, on the other hand, even though he doesn't have access to a machine rest, is capable of holding so well in the prone position that he can soon tell whether his rifle is shooting 'em down a tube or scattering 'em out into the nine-ring. (Pistolmen, don't blow your tops!) Handgunners can only figure that if they are having good scores, the gun is grouping and if they aren't, well . . . they just aren't holding well today. If these people could only tell what their guns were capable of, they would undoubtedly become as careworn and haggard as riflemen.

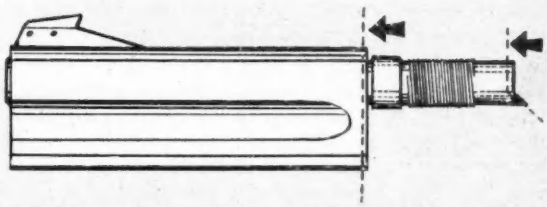
What does all this group business mean, anyway? It means that if you have a gun which will shoot a three-inch group at fifty yards, you simply have to hold like a machine rest in order to obtain a possible, for the ten-ring is three inches in diameter. If, however, you have one which will pop out a group measuring an inch at the same range, you can move around a bit and still get possibles. Not that you and I get possibles, but that illustrates the importance of optimum groups. It doesn't do a bit of good to say that you're not a good enough shot to worry about groups either, because the poorer shot you are, the more necessary it is to have a tight-shooting handgun. I am convinced that the horny-handed Benner could fire possibles with that three-inch grouping gun, but you and I need every bit of room on the target we can get.

In an effort to find out something about the grouping qualities of my own guns, I took my two .22's to Remington in Bridgeport, Connecticut. Gerard Peterson was willing to cooperate and graciously took the time of their test men to help solve the problem of finding things out and attempting to do something about it. One of the guns was an old, old Colt Woodsman which I stumbled on when I first started shooting and for which I paid about eight bucks. Joe Lamping, the gunsmith over in Cincinnati, made a barrel for it and it is the only gun I ever fired in a .22 match until last year when I acquired my second gun, a new Match Target. We put the Match Target in the big Modern Bond machine rest first, and with it fired a number of ten-shot groups at fifty yards with different brands of ammunition. The results were not particularly good and there were several flyers in the run. It was a regular factory model pistol with the six-inch heavy barrel. The groups averaged an inch and a half with match-grade ammunition. Then into the rest went the old Lamping Woodsman, with nearly astounding results. Of all the groups fired with this gun, using different grades and brands of ammunition, the average was well under one inch and the smallest ten-shot group measured .6 inch.

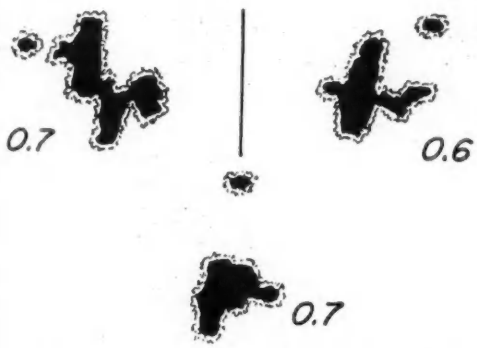
The same routine was tried another day but in the meantime I had whacked off the new Match Target barrel to a little over five inches just to see if the balance would be better, as Emmett Jones and the West Coast people claim. I began to feel that barrel length had something to do with the groups



Dimensions of Lamping chamber and barrel. Depth of chamber was measured by dropping .222-inch ball in and measuring from rear surface to breech. Drawing is exaggerated and not to scale



Barrel was cut at dotted line and shortened 1/32 inch, so it would screw one thread deeper into receiver. Then breech was cut off equal amount, and ramp and extractor cut reformed



Three groups fired from the Colt Woodsman with Lamping barrel, which had been used for years before measurements were taken and the chamber was found to be smaller than normal

after that, as the groups with the gun enlarged slightly while the 7¼-inch Lamping barrel was still shooting much like a rifle. I reserved an opinion until both guns could be examined.

To begin with, the two barrels were inspected carefully with a magnifying glass. This proved exactly nothing as the Lamping barrel appeared to have been lapped with Dutch Cleanser (complete with Seismotite) while the new Match Target barrel looked perfectly normal. In fact, the steel in Joe's tube seemed to have a granular structure and the lands and grooves gave the impression of varying in width. Not so with the Colt barrel. It was as smooth as a baby's posterior and as nearly perfect as the eye could detect. Measurements of the bore and groove diameters gave no clue either, as they were the same within a couple of tenths. Pay dirt was reached, however, when casts of the chambers were made and compared. Measurements of the chamber dimensions revealed that the Lamping chamber was a couple of thousandths smaller in diameter both fore and aft and was about .030 inch shorter. Now, chambering has always been critical in rifle barrels and it seems logical that it should be just as important in the barrels we hang on a handgun. My good friend A. E. Berdon of Lakeland, Florida, doesn't agree with me and he has some interesting arguments to support his belief, as well as his fascinating smoothbore pistol which, as he says, "Has no chamber!" Nevertheless, other than barrel length, the only major difference in the two guns was in chamber dimensions and I was determined to find whether a change in the Match Target chamber would affect the group size.

For that reason, I removed the Match Target barrel and cut back the shoulder which bears against the receiver when the barrel is screwed in, so that when it was replaced it made one complete turn of the threads farther than it had before. This caused the barrel to project about a thirty-second of an inch beyond the breech, which made it necessary to cut it off and reform the loading ramp. The simple operation shortened the chamber to the approximate depth of the Lamping job, and I hustled back to Remington to see what the result would be.

Upon firing ten-shot groups with Targetmaster ammunition, which had given the best previous results, it was found that the group size had been cut in half! This indicated that the accuracy of standard factory barrels could be improved materially by an operation which any gunsmith can accomplish quickly. Apparently the dispersion had been caused by the gap which the bullet had to jump before 'taking' the rifling. This must have caused some mutilation or at least malformation of the bullet, causing flyers and larger groups.

The question comes up as to why the Colt people make a gun with a chamber so deep when it seems neither desirable nor necessary. Their reply is that the chambers of their stock pistols must be deep enough to accommodate all the various types and brands of ammunition ever manufactured, and the chambers must be large enough to permit exceptionally greasy cartridges to feed properly in a semiautomatic. With this there can be no argument, providing the guns are intended for the general trade and not for the comparatively small number of match shooters. In all fairness to the company, it must be admitted that neither the Lamping gun nor the Match Target with shortened chamber will handle any but good grade match ammunition or stuff wiped free of heavy grease, particularly in cold weather. I have been using match ammunition for some years for the Lamping Woodsman, however, and strongly recommend it to the shooter who has a tightly chambered pistol. It is my humble opinion that the factory could make the chambers much shorter and still not have serious feeding troubles in their match semiautos yet accuracy would be improved. Also, I don't think that serious pistolmen will object to careful selection of ammunition if they realize that improved accuracy will result.

It is also interesting to note that, as in some rifles, a particular brand of ammunition performs better in some handguns. In the Lamping barrel, the best groups were given with Western Super Match Mark II, but with the Match Target Remington Targetmaster gave the best results. This may indicate that we handgunners have to determine what brand shoots best in our respective guns, like the 'very particular' smallbore people. Again the difficulty of testing comes up, and as the differences are so slight I doubt if we will do much about that phase. There isn't much doubt that match-grade ammunition made particularly for pistols will perform the best.

Very few of us have a machine rest handy, and I imagine that the people at Remington and Winchester would become somewhat annoyed if they should find a bunch of pistol enthusiasts lined up in front of the plant some morning, all expecting to use the machine rest. Nor is there any other satisfactory way of testing, although some shooters can do well firing over a hand rest. Master Sergeant Tom Mitchell at Quantico is one of these. Mitchell can shoot groups from his hand rest which amaze me. I watched him test a Smith and Wesson K-38 one day, and he put six shots into a little over an inch at fifty yards more than once. I don't know of many others who can do this, though, and the testing problem is very acute.

What we can do is to make sure that the chamber of our .22 pistol is of the proper dimensions. A gunsmith can give us the information quite readily and can, by means of the simple method outlined, rectify the error found in most Match Targets of postwar manufacture. The ideal chamber undoubtedly would be one which permits the bullet to seat itself in the rifling upon the closing of the slide, as in a smallbore rifle or a single-shot pistol. The semiautomatic nature of the guns in general use makes this impracticable, as it would hinder feeding. The best compromise is to form the chamber so that the bullet comes as close to doing that as is consistent with good feeding. When this condition is reached, we will know that we will get the most out of our existing barrel. Serious shooters will certainly want to do exactly that.

Barrel Length and Velocity

(Continued from page 30)

in 24-inch barrel, instrumental of 2601 foot-seconds. Discrepancy below due to individual barrel. Tested in another Springfield, velocity ran 2612 foot-seconds.

A	B	C	D	A	B	C	D
30	58	19	2601	11	58	20	2027
26	77	20	2549	10	70	19	1943
24	53	14	2505	9	75	31	1844
20	74	18	2476	Velocity loss, 30 to 20 inches			
12	100	31	2144	125 f.s. or 12½ f.s. per inch.			

The information above should be considered as representing ammunition performance in just *one individual gun*. It proves, though the variety of loads tested, that velocities in the legal commercial lengths of barrels covering the requirements of the hunter and target rifleman, do not drop at the accepted rule-of-the-thumb standard glibly listed as "25 foot-seconds per-inch". It will be seen that the drop between 20 and 3 inches rarely ran half of that figure.

To obtain a more accurate picture would require ten similar guns and four times the firing in each length of barrel. That about 100,000 rounds and ten barrels would be consumed—something beyond the means of the private experimenter.

THE SPOTTING SCOPE -- March 1950

One of the best stories of a man and his rifle was revealed recently by The Infantry Journal. Reports the Journal . . . in September 1945, T/5 Milton Brynin turned in his M1 service rifle. On it was a note which read . . . "To Whom It May Concern --It is with deep regret that I turn this rifle in. It has seen action in France, Belgium, Holland and Germany. It has been cared for. It was covered in the rain, kept free from mud in foxholes and always kept clean. Many times I tore my clothing up to use for patches after firing. The mechanical zero is (undecipherable) clicks of elevation for 200 yards and 0 degrees for windage. It is mechanically perfect. I transferred from the Infantry after V-E Day and took it with me. Now I'm transferring again but this time I can't take it. I would gladly give my first check from my mustering-out pay to keep it. Its value to me cannot be ascertained. As I cared for it in the Infantry when it was my baby I expect you to care for it now that it is your baby. Please do. Thank you.". . . The note was found last fall at the Rock Island arsenal in a box of miscellaneous material just returned from overseas. The rifle was not in the box. Now the Infantry Association is on the hunt for Garand rifle No. 3186532. If found, they hope to purchase the rifle and turn it over to Brynin in appreciation of a man's affection and respect for his rifle. Does your club have it?

NRA vice-president Harry Linn now heads the American Legion Marksmanship program, the same job NRA Secretary Frank Wyman holds in the Veterans of Foreign Wars. . . . Lee Echols, Phil Roettinger, Brigadier-General Sidney Hinds and Col. Paul Roberts are now in Guatemala City as guests of the Guatemalan government. Between feasts they are acting as judges of the shooting matches in the 6th Central American and Caribbean Games. . . . Assistant US Attorney-General Theron Lamar Caudle joined the Association ranks in November. An ardent admirer of the NRA, Caudle spends a good deal of his time recruiting among his associates at the Department of Justice. . . . Col. Townsend Whelen's "Mountain Meat Gun" which appeared in the February issue of "Sports Afield", was one of the best of his many outstanding stories. . . . Bill Schweitzer's paper-making company recently widened its activities with the $10,000,000 purchase of the Smith Paper Co., of Lee, Massachusetts. . . . The appointment of Marine Brigadier-General Vernon E. Megee to the Armed Forces Joint Staff was good news. With all the talk about hydrogen bombs, atomic bombs and guided missiles, it is good to know that the rifle and pistol shooter has a friend in high places.

From the Worcester, Mass., Telegram . . . A Brink's armored truck pulled up at the Grafton Savings Bank. Two men went in to make a collection. A third stood on the sidewalk, his revolver drawn, the barrel in his mouth to keep it warm and ready! . . . During the 1949 NRA Director's Meeting a resolution was passed petitioning President Truman to include enough money in the 1951 budget to carry out the civilian marksmanship program under Section 113 of the National Defense Act. A copy of the resolution was sent to each member of Congress. Many took the trouble to acknowledge personally receipt of the paper and pointed out they were familiar with the organized shooting program. Evidently the voice of shooters is being heard. . . . Tommy Henrich, famed Yankee ballplayer, will be the honorary range officer at the Inter-Scholastic Rifle Tournament to be held in New York, April 1. . . . In Hollywood, Warner Brothers is scheduling "Colt 45" for May release; Universal-International will follow later in the year with "Winchester 73". . . . Chief of Police John M. Gately, of Millis, Mass., has become so interested in junior shooting activities that he is now acting as chief instructor of the club sponsored by the American Legion post. . . . A total of 12,758,698 hunting licenses was sold during the 1948-49 season. It is a new all-time record and represents a jump of 1,366,888 over the previous season. . . . There are just six months left to make plans for the 3rd Annual NRA Convention in San Francisco, the first week in October.

Paul Cardinal

Marksman, Sharpshooter Championships Feature 1950 National Tournaments

Championship recognition for Marksmen and Sharpshooters is the feature of the 1950 National Smallbore and Pistol title races. Shooters in the two classes will battle it out among themselves to find the top men and the winners will be given nation-wide acclaim as class champions. The class championship firing will be held a few days before the Experts and Masters give chase to the titles now held by smallbore king Robert McMains, of Dallas, Texas, and pistol crownholder Heulet Benner, of Ft. Knox, Kentucky. Joining the fast field will be the top ten percent from the class races.

The pistol Marksmen and Sharpshooters will take the firing line September 23-24-25 on the San Francisco Municipal Police range with the open firing coming September 27-28-29. The class smallbore title aspirants will shoot September 27-28 on a range now being built in San Francisco's Sharpe Park. The big smallbore show will follow on September 29-30.

Heulet Benner

Robert McMains

All regional championship match competitors will be eligible to compete in the individual nationals. In the case of the smallbore championships it will take 500 riflemen to fill the two tournaments. Handgunners will fill Emil Dutil's police range at 560. If more entry applications are made than can be accommodated at Frisco, the higher ranking regional championship competitors will be given priority in the accepting of entries.

For the first time since 1946 the major prize for the regional champion, high Expert, high Sharpshooter and high Marksman will be the NRA award of a rail and pullman round trip ticket to the scene of the nationals and back home. In any case where the winner of the trip prize cannot attend the California tournaments the ducat will be passed down to the next eligible competitor.

Entry in the NRA national pistol team championships will be open to organizations which were represented in the regional team events. At the golden gate city, the team may have two members who did not fire with the aggregation at the regionals. However, no such team member will be able to fire in the individual races unless he earned his eligibility as an individual in one of the sectional runs.

Programs and entry cards for the national championships will be available at all regionals this summer. Individuals will have to have their application for entry in the NRA Washington office on or before September 4. The early date is made necessary so that entries can be confirmed and shooters provided for properly.

Competitors' eligibility to fire in either the class or open national title strings will depend upon his classification on the day the championship races begin.

It is hoped that both the team and individual National Trophy Pistol Matches can be fired during the NRA National Pistol Championships. If arranged the trophy matches will be staged Tuesday, September 26.

DCM NOTES

Additional *Springfield Model 1903 unserviceable rifles* have been made available in ordnance arsenals for sale to members of the National Rifle Association and it is expected that more rifles of this type will be available in the future.

Requests to purchase these rifles may now be forwarded to the DCM by NRA members who have not purchased an M1903 rifle since 1945. Price, $15.00, plus $2.85 for inspection, packing and handling. Rifles are shipped carrying charges collect. No other type of rifle is available at this time.

Send order to the Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C., with your current NRA membership card. *Do not send money to the DCM.* You will be notified by an arsenal when and where to send your remittance. Show mailing address on your request. *Do not order* if you have purchased an M1903 rifle since 1945. *Do not send* in a request to purchase unless you intend to accept the rifle when you are notified by the arsenal that one is available.

Orders will be forwarded to arsenals as rapidly as they can be processed in the office of the DCM. Shipment of rifles will be governed by the work load in the arsenals. No assurance can be given as to when delivery will be made nor as to the arsenal from which shipment will be made.

Rifles of unserviceable grade should not be fired until examination and correction is made by a competent gunsmith to insure that all safety factors exist, including a test for headspace not greater than 1.946 inch. Ordnance specifications for rifles classed as unserviceable are as follows: must be free of excessive rust (small rust spots acceptable), no major component should be missing or broken. Pitted bores and excessive headspace will be disregarded.

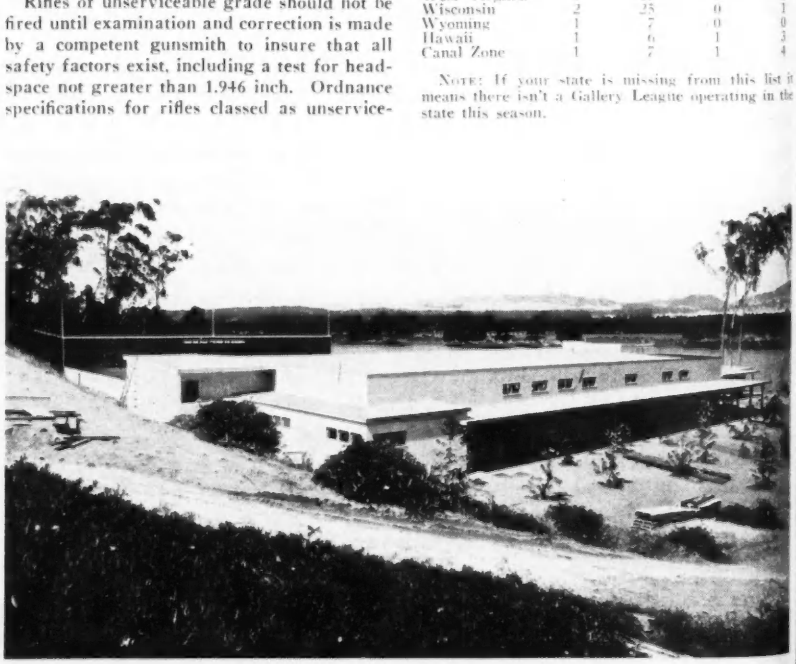
REGISTERED GALLERY LEAGUES

The 1949-50 Registered Gallery League season is rolling along in fine shape. The entries this year are higher than any previous season in the history of the NRA. There are a total of 133 gallery rifle leagues made up of 948 teams and 31 gallery pistol leagues consisting of 235 teams. Secretaries should watch each fall and spring for league announcements.

Teams fire once every week throughout the season. Individual scores count for national classification. At the end of each season state and national championships are conducted and awards presented by the National Rifle Association.

State	Rifle Leagues	Rifle Teams	Pistol Leagues	Pistol Teams
California	11	83	1	4
Colorado	6	37	2	7
Dist. of Col.	1	9	2	14
Idaho	2	11	1	7
Illinois	5	56	2	38
Indiana	7	30	3	18
Iowa	2	27	1	17
Kansas	3	19	0	3
Louisiana	1	3	0	0
Maine	2	17	0	0
Maryland	4	32	0	1
Massachusetts	3	23	4	17
Michigan	4	47	0	0
Minnesota	7	56	0	3
Missouri	0	3	0	3
Montana	5	23	0	0
Nebraska	2	20	0	1
Nevada	1	5	0	0
New Hampshire	3	9	0	0
New Jersey	2	18	2	23
New Mexico	0	7	0	0
New York	13	86	3	10
North Carolina	2	8	0	0
Ohio	6	61	1	10
Oklahoma	2	6	0	0
Oregon	5	50	0	0
Pennsylvania	7	42	3	24
South Dakota	1	7	0	0
Tennessee	1	4	0	0
Utah	2	8	0	0
Vermont	3	18	1	3
Virginia	3	16	1	15
Washington	6	38	1	6
West Virginia	3	13	1	3
Wisconsin	2	25	0	1
Wyoming	1	7	0	0
Hawaii	1	6	1	3
Canal Zone	1	7	1	4

NOTE: If your state is missing from this list it means there isn't a Gallery League operating in the state this season.



The beautiful San Francisco Municipal Police range is the scene of the 1950 Pistol Championships

HIGH POWER RIFLE

The rules sub-committee of the High-Power Rifle Competitions Committee consisting of Thurman Randle, Chairman, Lt. Col. Glen Funk and Frank T. Parsons, members, met in Washington on January the 26th. The entire time of this meeting was spent in completion of the new high-power rifle rules as drawn up in the panel meetings at the Convention in Denver. A meeting of the entire Committee was held February 23rd to review both rules and the future big bore competitive program. A complete report on this will come later. The new high-power rifle rules were presented to the Executive Committee on February 25th. The new high-power rifle rule book will be ready for distribution as soon as the final kinks are ironed out.

MOTION PICTURE SERVICE

Several new titles have been added to the list of NRA rental films available for showing at club meetings. Order forms and new lists of films have been mailed to all NRA clubs. Some of the films are rifle and pistol training pictures while others are on hunting and wildlife. The films were selected with the view of giving clubs a chance of preparing better rounded meetings. If an individual NRA member wishes to have the new list of films he should write to NRA Headquarters.

The films are listed below:

TRIGGER HAPPY HARRY—Features safety training—hunting, plinking and on the range. Color, sound. 800 ft. Time, 20 min.

FUNDAMENTALS OF RIFLE MARKSMANSHIP—The US Marine Corps develops its outstanding service rifle marksmen. Film deals mainly with big bore rifles. Black and white, sound. 1200 ft. Time, 31 min.

THRILL RIVER—The scene is the Albert Nile River in Africa. The elephant, the lion, the crocodile, contest with each other for the right to live. Black and white, sound. 400 ft. Time, 11 min.

STEADY NOW—Picture demonstrates dogs trained to locate, point, to retrieve on command and be under perfect control at all times. Black and white, sound. 400 ft. Time, 11 min.

HOW TO SHOOT A RIFLE—A complete rifle training film featuring sighting, sight adjustments, positions, use of sling and general training. Black and white, sound. 1000 ft. Time, 30 min.

PISTOL BULLSEYES—Shows instructions in pistol and revolver shooting including position, grip, trigger squeeze and all the important points in handgun shooting. Black and white, sound. 800 ft. Time, 21 min.

BUFFALO LORE—Film shows huge herds of these buffalo in the western plains. Includes the rare white bison and a battle between two large buffalo bulls. Black and white, sound. 400 ft. Time, 11 min.

KENAI BIG GAME—About Alaska big game, fine shots of goats, grizzlies, moose and sheep. Black and white, sound. 400 ft. Time, 11 min.

WILD FOWL IN SLOW MOTION—A remarkable study in the grace and beauty of duck, geese and other wild fowl made possible by sensational slow motion pictures. Black and white, sound. 400 ft. Time, 11 min.

CHARLES A. DILLER DIES

The fast-diminishing ranks of American barrel-makers have grown even smaller with the death in January of 71-year-old Charles A. Diller of Dayton, Ohio. Though never as well-known nationally as Pope or his contemporaries of the Eastern states, Diller made many superbly accurate rifle barrels, and was active to the day of his death. A strict individualist, Diller was a fine and conscientious workman but, like Pope, would sometimes refuse to make a barrel if he thought the would-be purchaser was what he termed a 'gun crank'. While Diller made many complete barrels, he was perhaps best known for his fine relining jobs, many of which gave better accuracy than did the original barrels. In his passing, America has lost another craftsman of the 'old school'.

1950 JUNIOR CHAMPIONSHIPS

The 1950 National Junior Rifle Championship tournament will be fired on the 11th of this month. The annual event is fired on a shoulder-to-shoulder basis in 46 sectional tournaments in the United States. In addition one tournament will be held in Hawaii and one in the Canal Zone.

In 1949 2436 individuals and 468 teams competed in 44 sectional tournaments. This year's entries close March 4. Teams and individuals may be entered by contacting one of the sponsors.

The locations and sponsors of the 1950 sectional tournaments are as follows:

Location	*Sponsor*
1	Northfield, Vt.—Vermont Rifle and Pistol Ass'n
2	So. Portland, Me.—Maine Rifle Instructors Club
3	Lowell, Mass.—Lowell Marksman's Club
4	New Haven, Conn.—Conn. Rifle and Rev. Ass'n
5	Troy, N. Y.—La Salle Institute
6	Wellsville, N. Y.—Mr. H. F. Sinclair
7	Snyder, N. Y.—Amherst Central High School
8	Sidney, N. Y.—Scintilla Gun Club
9	Brooklyn, N. Y.—N. Y. Public High School Rifle League
10	North Belmore, L. I., N. Y.—South Shore, L. I.
11	Newark, N. J.—Ass'n of N J. Rifle and Pistol Clubs
12	Philadelphia, Pa.—Upper Darby H. S. Jr. Rifle Club
13	Baltimore, Md.—Assoc. Gun Clubs of Baltimore
14	College Park, Md.—Univ. of Maryland
15	Oakmont, Pa.—Western Penn. Jr. Rifle League
16	Willoughby, Ohio—Ohio Rubber Co. Gun Club
17	Mansfield, Ohio—Mansfield YMCA Rifle Club
18	Dayton, Ohio—Am. Legion Post #5 Jr. R. C. & Miami Valley Outdoor Ass'n
19	Ann Arbor, Mich.—Ann Arbor Sr. Rifle Club
20	New Albany, Ind.—New Albany H. S. Jr. Rifle Club
21	Fort Wayne, Ind.—Concordia H. S. Jr. Rifle Club
22	Nashville, Tenn.—Youth Incorporated
23	Evanston, Ill.—Francis Runge Jr. Rifle Club
24	West Allis, Wisc.—Wisc. Rifle Ass'n
25	Sparta, Wisc.—Wisconsin Rifle Ass'n
26	Minneapolis, Minn.—Univ. of Minneapolis & Minneapolis Rifle Club
27	Davenport, Ia.—Davenport H. S. Jr. Rifle Club
28	St. Louis, Mo.—Washington Univ. ROTC
29	Nevada, Mo.—Nev. Jr. & Sr. Rifle Clubs
30	Thibodaux, La.—Thibodaux High School Jr. Rifle Club
31	Pierre, S. D.—Lewis & Clark Jr. Rifle Club
32	Tulsa, Okla.—Tulsa Rifle Club
33	Houston, Tex.—Rice Inst. & Treasure Island Rifle Club
34	El Paso, Tex.—Mil. Dept. of El Paso High Schools
35	Denver, Colo.—Mil. Dept. of Denver High Sch. & Colo. Rifle Ass'n
36	Bozeman, Mont.—Southern Mont. Jr. Rifle League
37	Boise, Ida.—Boise R. and P. Club
38	Salt Lake City, Utah—Salt Lake Rifle & Pistol Club
39	Phoenix, Ariz.—Phoenix H. S. ROTC Unit
40	Tucson, Ariz.—Morgan-McDermont Am. Leg. Post #7
41	Spokane, Wash.—Spokane Rifle Club
42	Seattle, Wash.—Glendale Post VFW 3075 Jr. Rifle Club
43	Tacoma, Wash.—Stadium H. S. Jr. Rifle Club
44	Hillsboro, Ore.—Hillsboro Union H. S. Jr. Rifle Club
45	Hayward, Calif.—Tenex Jr. Rifle Club
46	El Monte, Calif.—Los Angeles Rifle and Revolver Club
47	Balboa, Canal Zone—Elks Lodge #1414
48	Honolulu, Hawaii—Reserve Officers Ass'n of Honolulu

TOURNAMENT SPONSORS NOTICE

In order that 35,000 competitive shooters can be notified of the date and place of your tournament in the "1950 Outdoor Rifle and Pistol Registered Tournament Schedule" you must have your registration application in the NRA office by March 15. It is not necessary to have your proposed program included. The printed schedule will be mailed on April 15 to all shooters. Take advantage of the schedule as it gives your tournament the best possible advance publicity and at the same time allows competitors to pick out the shoots they want to attend during the summer.

NEW CLUB FACILITIES

Portland Rifle Club, Portland, Oregon, is now completing a new club house. It includes 21 firing points with plate glass windows in the rear of the firing line so that spectators may observe without interfering with the shooters. In addition to an office, storeroom, and scoring room, the building includes a cedar-paneled 30 x 50 foot lounge with fireplace and coffee bar.

Wheatland Rifle Club, Wheatland, Illinois, was honored by a write-up in the January 15 issue of the Chicago *Herald-American* which included a picture of their new club house. The modern building has radiant heating, a fireplace, club room, kitchen, and an eight firing point range. It was built by club members in their spare time.

CHANGES IN NATIONAL RECORDS

Indoor Small Bore 50 Ft. Records

All Sight Aggregate (Women's)		
Elinor Bell, Santa Monica, Calif.	1949	3190-213X
Any Sight Aggregate (Women's) *Correction		
Elma Cornish, Los Angeles, Calif.	1949	1598-119X
10 Shots prone & standing:		
Stuart C. Edmonds, Portland, Ore.	1948	199
Arthur Cook, Washington, D. C.	1949	199
20 shots standing, Metallic (Junior) *Correction		
Roy Oster, College Park, Md.	1949	172

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Clubs and COMPETITORS

"Pappy" Pope reports the Los Angeles Rifle and Revolver Club was recently enlivened by 176 Junior competitors at a junior shoulder-to-shoulder tournament. About ten percent of the competitors were girls.

☆ ☆ ☆

The North Stamford, Conn., Rifle Club recently marked its tenth annual meeting with a banquet. President Don Archer presided as highlights of a decade of experiences and growth were explained by Past President Ed Clark, John Powell and Art Greer.

☆ ☆ ☆

About one hundred forty parents and friends of members of the Spokane, Washington, Junior Rifle Club were proud enough of their youngsters to hold an award meeting recently where one expert, seventeen sharpshooters, seven marksman first class, seven marksman and eight pro-marksman medals were presented the juniors.

It promoted a great amount of enthusiasm among the juniors and was covered fully by the local newspapers.

☆ ☆ ☆

The following is a list of the Juniors who qualified as Distinguished Riflemen during January 1950:

Robert D. Howe, Pueblo, Colo.
Jack Stafford, Oxford, Ohio
Larry La Bell, Wyandotte, Mich.
Donald McGrath, Cincinnati, Ohio
James E. Speers, Howe, Ind.
Sidney Sandow, Paterson, N. J.
W. E. Gruening, Cincinnati, Ohio
Louis Lehman, New Hartford, N. Y.
Alfred Rathbun, Ellis, Kans.
Charles T. Matsubara, Wailuku, Maui, T. H.
G. Thomas Horace, St. Louis, Mo.
Noel Hazard, Wellsville, N. Y.
Asa Aames Lett, Portsmouth, Ohio
Jack Howser, Quincy, Ill.

☆ ☆ ☆

The Bay Rifle Club, of Coos Bay, Oregon, has come up with several novel promotion ideas which have been very successful in stimulating interest among club members. The club gives a tyro medal each month to the high beginner. They also award a medal to the member with the best aggregate over two months of shooting. No member may win the high aggregate medal twice.

Another very successful type of club competition is the buddy match (two-man team). The club member with the highest averaged scores for a three-month period is teamed with the one who has the lowest average (second high is teamed with second low, etc.). Besides helping members to become better acquainted this type of match gives the new shooter an opportunity to learn from the experience and knowledge of his shooting partner. The club also divides up into opposing teams with the losing team after a month of firing being "stuck" for the coffee and doughnuts.

☆ ☆ ☆

Staff member Russ Warye held three liaison meetings with club officers and members in Eastern Iowa and Western Illinois late in December.

Officers and members of Cerro Gordo Rifle and Pistol Club, Mason City, Iowa, Linn County Rifle and Pistol Club, Cedar Rapids, Iowa; Wilton Rifle Club, Wilton Junction, Iowa; Scott County Sportsmen's Association, Davenport, Iowa; Edgington Rifle and Pistol Club, Edgington, Illinois; Rock Island Rifle and Pistol Club, Rock Island, Illinois; Milan Rifle Club, Milan, Illinois; T-Win Rifle and Pistol Club, Galesburg, Illinois; Muscatine Rifle Club, Muscatine, Iowa, and Illowa Rifle Association, Muscatine, Iowa, attended the meetings.

The problems of each club were taken up for discussion and new club officers gained the experience and knowledge of the old-timers. It is the plan of NRA Headquarters to continue the liaison trips in order that the staff may help solve the difficulties encountered by clubs and state associations.

JUNIOR POSTAL MATCHES

The results of the second monthly Junior Postal Matches are in and as usual there is a hot contest for the awards in each division. The matches are conducted during the month of November, December, January and February each year and the trophies and medals are awarded on the total score of all four matches. The following list shows the standing of the top teams as of the end of the December Match.

DIVISION A
Open Junior Team

Course of Fire: 10 rounds prone, 10 rounds standing. Range—50 Feet.

1—Glen Post VFW Jr. Rifle Club—Seattle, Wash.	1873
2—Grover Cleveland H. S.—St. Louis, Mo.	1867
3—Charlotte Hall School—Charlotte Hall, Md.	1862
4—Arlington Rim-Fire—Arlington, Va.	1862
5—St. Francis Xavier—New York City, N. Y.	1854

DIVISION B
Inter-Scholastic Teams

Course of Fire: 10 rounds prone.

Non-Military Schools

1—Oakmont H. S.—Oakmont, Pa.	998
2—Munhall H. S.—Munhall, Pa.	993
3—Clymer H. S.—Clymer, Pa.	992
4—Upper Darby H. S.—Drexel Hill, Pa.	991
5—Coraopolis, H. S.—Coraopolis, Pa.	990

Military Schools

1—St. Francis Xavier—New York, N. Y.	995
2—Christian Brothers Academy—Albany, N. Y.	988
3—Cadet Rifle Club—Hays, Kans.	985
4—La Salle Institute—Troy, N. Y.	980
5—Cretin H. S.—St. Paul, Minn.	978

DIVISION C
Non-Scholastic Teams

Course of Fire: 10 rounds prone.

1—Glenridge Jr. Rifleman—Bloomfield, N. J.	992
2—Detroit Edison—Detroit, Mich.	988
3—Glen Post VFW 3075—Seattle, Wash.	987
4—Brooklyn Junior R. C.—Brooklyn, N. Y.	984
5—Arlington Rim-Fire—Arlington, Va.	984

DIVISION D
"Cub" Teams

Course of Fire: 10 rounds prone.

1—Estes Park Jr. R. C.—Estes Park, Colo.	966
2—Glen Ridge Jr. Rifleman—Bloomfield, N. J.	957
3—Polo Jr. Rifle Club—Polo, Ill.	945
4—St. Paul's School—Concord, N. H.	943
5—Eaglebrook School—Deerfield, Mass.	930

DIVISION E
Girls Teams

Course of Fire: 10 rounds prone.

1—Munhall High School—Munhall, Pa.	993
2—Clymer High School—Clymer, Pa.	989
3—Oakmont High School—Oakmont, Pa.	985
4—Centennial Girls R. C.—Pueblo, Colo.	978
5—Estes Park Jr. R. C.—Estes Park, Colo.	977

COLLEGIATE CHAMPIONSHIPS

Judging from entries of previous years it is estimated that about 100 collegiate teams with over 500 individual competitors will shoot in the 1950 Intercollegiate Shoulder-to-Shoulder Championships which will be fired in twelve sectional tournaments on April 1. The exact locations of the sectional tournaments have not been established but will be announced shortly.

A general mailing to all affiliated college clubs is being made up and will contain specific match conditions and entry blanks.

The collegiate postal matches are now underway. Fired targets for the freshman team match, collegiate individual, team pistol matches, and the women's team and individual matches must be fired and returned to the NRA Washington office by March 31, 1950.

NEW RULE BOOKS

The new smallbore and pistol rule books are now off the press. A copy of each new rule book has been mailed to each NRA director, club secretary, and official referee. All major changes in the rules were outlined in detail in the December RIFLEMAN. The new rules will not disturb the present rifle or pistol gallery season since they are to be put into effect on July 1, 1950, for gallery competition and on March 1, 1950, for outdoor tournaments.

Those who desire personal copies of the new rule books may obtain them from the NRA Washington office. The cost of the new rule book—to include mailing, is twenty-five cents per copy.

COMING EVENTS

Tournaments and other important events listed below include all National, Regional and State Championships that have been registered with the NRA as of January 1, 1950. The current Gallery Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered gallery tournaments that were reported to NRA Headquarters by December 1, 1949. Tournaments other than championships are not listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write the tournament sponsor in advance for a program of any registered tournament you plan to attend. It is your assurance that you will know all the details of the tournament conditions.

OCTOBER

2-6, 1950—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

Last week in September, 1950—Smallbore Rifle at San Francisco, California. Programs available later from N.R.A. Office.

Last week in September, 1950—Pistol and Revolver at Police Department Range, San Francisco, California. Programs available later from N.R.A. Office.

SMALLBORE REGIONAL CHAMPIONSHIPS

MAY

13-14—Far Southwestern at Phoenix, Arizona. Mr. Glenn Taylor, 3110 East Manor Drive, Phoenix, Arizona (Adv.-Ltd.).

JUNE

17-18—Rocky Mountain at Cimarron, New Mexico. Mr. John O. Harrison, Cimarron Rifle and Pistol Club, Cimarron, New Mexico (Adv.-Ltd.).

24-25—Southwestern at Fort Worth, Texas. Mr. J. L. Kelly, P. O. Box 3007, Fort Worth, Texas (Adv.-Ltd.).

24-25—Midwestern at Des Moines, Iowa. Mr. Howard O. Smith, Box 1395, Des Moines, Iowa (Adv.-Ltd.).

JULY

1-2—South Pacific States at Santa Barbara, California. H. Griffiths, 927 W. Valerio Street, Santa Barbara, California (Adv.-Ltd.).

8-9—Northeastern at Middlefield, Connecticut. Mr. J. Russell Lent, Connecticut State Rifle and Revolver Association, Middlefield, Connecticut (Adv.-Ltd.).

8-9—Northwestern at Anaconda, Montana. Mr. Fred J. Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

AUGUST

5-6—Middle Atlantic States at Altoona, Pennsylvania. Mr. R. B. Barry, Altoona Rifle and Pistol Club, Altoona, Pennsylvania (Adv.-Ltd.)

5-6—North Central at Bristol, Indiana. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend 28, Indiana (Adv.-Ltd.).

12-13—Southeastern at Savannah, Georgia. Mr. Gerald L. Storey, 2013 Reynolds Street, Savannah, Georgia (Adv.-Ltd.).

19-20—North Pacific States at Wenatchee, Washington. Mr. C. L. Wood, North Central Washington Rifle and Pistol Club, Wenatchee, Washington (Adv.-Ltd.).

PISTOL REGIONAL CHAMPIONSHIPS

MAY

5-6-7—South Pacific States at Calexico, California. Mrs. Margaret Poindexter, Calexico Gun Club, El Centro, California (Adv.-Ltd.).

June 30-July 1-2—Middle Atlantic States at Quantico, Virginia. Lt. Colonel George R. Stallings, USMC, Marine Corps School, Quantico, Virginia (Adv.-Ltd.).

JULY

1-2—Rocky Mountain at Denver, Colorado. Mr. R. T. McCluskey, 1643 Broadway, Denver, Colorado (Adv.-Ltd.).

3-4—Southwestern at Shreveport, Louisiana. Mr. W. C. Alston, 736 College Avenue, Shreveport, Louisiana (Adv.-Ltd.).

8-9—Northeastern at Albany, New York. Mr. Gilbert W. Welsh, 1291 Garner Avenue, Schenectady, New York (Adv.-Ltd.).

AUGUST

4-5-6—Far Southwestern at Prescott, Arizona. Mr. Mack Weiss, Box 1024, Prescott, Arizona (Adv.-Ltd.).

5-6—Northwestern at Anaconda, Montana. Mr. Fred Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

25-26-27—Southeastern at Jacksonville, Florida. Mr. C. A. Brown, Jacksonville Police Department, Jacksonville, Florida (Adv.-Ltd.).

26-27—North Central at Flint, Michigan. Mr. Kenneth Gilman, 1330 Begole Street, Flint, Michigan (Adv.-Ltd.).

SEPTEMBER

2-3-4—North Pacific at Raymond, Washington. Mr. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington (Adv.-Ltd.).

3-4—Midwestern at Des Moines, Iowa. Mr. Howard O. Smith, P. O. Box 1395, Des Moines, Iowa (Adv.-Ltd.).

A competitors' meeting will be held in conjunction with each regional.

STATE CHAMPIONSHIP TOURNAMENTS AND OTHER REGISTERED TOURNAMENTS

Note: Correction of 1949-50 Gallery Schedule.

March 25-26 Indiana State Gallery Rifle Tournament to be fired at Indianapolis not Michigan City.

March 25-26 Iron River, Michigan—Dates changed to *April 15-16, 1950.*

MARCH

5 GEORGIA—Pre St. Pete Small Bore Rifle Tournament at Augusta, Georgia. O. J. Barrett, Mt. Route #48, Augusta, Georgia.

7-11 FLORIDA—National Mid-Winter Smallbore Rifle Tournament at St. Petersburg, Florida. Neil Cocking, 780 24th Avenue, North, St. Petersburg, Florida (Adv.-Ltd.).

11-12 NEW MEXICO—New Mexico State Gallery Rifle Championship at Cimarron, New Mexico. Peter B. Payne, Box 26, Cimarron, New Mexico.

12 ARIZONA—Pistol Tournament at Phoenix, Arizona. C. Howard Hathaway, Box 71, Tucson, Arizona.

11-12 MICHIGAN—Michigan State Gallery Pistol Championship at Brighton, Michigan. Mr. Walter Lamoria, 135 Kissane Drive, Brighton, Michigan (Adv.-Ltd.).

12 MINNESOTA—Minnesota State Gallery Pistol Championship at Minneapolis, Minnesota. Sgt. J. E. Boies, ROTC University of Minnesota, Minneapolis, Minnesota.

14-18 FLORIDA—National Mid-Winter Pistol Tournament at Tampa, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv.-Ltd.).

19 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

21-24 FLORIDA—Flamingo Pistol Tournament at Miami, Florida. A. T. Kelley, P. O. Box 43, Coral Gables, Florida.

25-26 MINNESOTA—Minnesota State Gallery Rifle Tournament at Minneapolis, Minnesota. Dr. E. O. Swanson, 4218 Washburn Avenue North, Minneapolis, Minnesota.

25-26 WASHINGTON—Washington State Gallery Rifle Tournament at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle 4, Washington.

25-26 INDIANA—Indiana State Gallery Rifle Championships at Indianapolis, Indiana. Edward J. Heise, 316 Warren Building, Michigan City, Indiana.

26 NEBRASKA—Nebraska State Gallery Rifle Tournament at Omaha, Nebraska. Harold H. Buis, 1312 North 35th Street, Grand Island, Nebraska (Adv.).

26 OHIO—Ohio State Gallery Pistol Championship at Columbus, Ohio. Mr. A. L. Schmieg, 91 East Weisheimer Road, Columbus 2, Ohio.

25-26 IDAHO—Idaho State Gallery Pistol Championship at Twin Falls, Idaho. Mrs. Bert Bays, 820 Shoshone Street, East, Twin Falls, Idaho (Ltd.).

25-26 IDAHO—Idaho State Gallery Rifle Tournament at Twin Falls, Idaho. Mrs. Bert Bays, 820 Shoshone Street, East, Twin Falls, Idaho (Ltd.).

25-26 NEW HAMPSHIRE—New Hampshire State Gallery Rifle Championship at Durham, New Hampshire. Del Main, Durham, New Hampshire (Adv.).

APRIL

1-2 CALIFORNIA—Pacific Coast Smallbore Rifle Championship at Monterey Park, California. Gladys Rising, 600 North Mayo, Compton 2, California (Adv.-Ltd.).

1-2 LOUISIANA—Third Annual Magnolia Smallbore Rifle Tournament at Lake Charles, Louisiana. Peggy Bumpers, P. O. Box 1426, Lake Charles, Louisiana.

1-2 IDAHO—Idaho State Junior Gallery Rifle Tournament at Twin Falls, Idaho. C. N. Rosa, 151 Addison, Twin Falls, Idaho.

2 COLORADO—Colorado State Gallery Rifle Championships at Camp Carson, Colorado. J. W. Woolrey, 606 Woodlawn Avenue, Canon City, Colorado (Adv.).

1-2 MONTANA—Montana State Indoor Pistol Championship at Helena, Montana. R. E. Englert, 1405 4th Avenue North, Great Falls, Montana.

1-2 INDIANA—Indiana State Gallery Pistol Championship at Indianapolis, Indiana. Harold Jolliff, Indiana State Police Headquarters, Stout Field, Indianapolis, Indiana.

15-16 UTAH—Utah State Gallery Rifle Championship at Logan, Utah. R. K. Walker, 161 Goltz Avenue, Salt Lake City, Utah.

15-16 GEORGIA—Southeastern Spring Small Bore Rifle Tournament at Savannah, Georgia. Gerald Storey, 2013 Reynolds Street, Savannah, Georgia.

16 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

16 OHIO—Ohio State Gallery Team Matches at Columbus, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv.).

22-23 TEXAS—Smallbore Rifle Tournament at Houston. J. Ferrell, % Humble Oil and Refinery Co., Houston 2, Texas.

22-23 NEW JERSEY—Second Annual New Jersey State Gallery Pistol Championship at North Bergen, New Jersey. Frank Svec, Box 42, Leonia, New Jersey (Adv.-Ltd.).

23 TEXAS—Spring Outdoor Pistol Tournament at Austin, Texas. Joe B. Taylor, 1204 W. 10th, Austin, Texas.

22-23 KANSAS—Kansas State Gallery Rifle Championship at Manhattan, Kansas. Jess E. Mosteller, 1216 Thurston Street, Manhattan, Kansas.

22-23 MONTANA—Montana State Indoor Rifle Championship at Lewistown, Montana. E. S. Schumacher, 2010 8th Avenue North, Great Falls, Montana (Ltd.).

22-23 MICHIGAN—Michigan State Gallery Rifle Championship at Dearborn, Michigan. Recreation Section, Ford Motor Co., Dearborn, Michigan.

29-30 OREGON—Oregon State Gallery Rifle Championship at Portland, Oregon. Herb T. Brown, 7159 SW 4th, Portland, Oregon.

29-30 PENNSYLVANIA—Pennsylvania State Gallery Pistol Championship at Wilkinsburg, Pennsylvania. W. L. Garrett, 118 Biddle Avenue, Pittsburgh 21, Pennsylvania.

30 WASHINGTON—Annual Spring Smallbore Rifle Tournament at Richland, Washington. Mr. R. T. Jaske, P. O. Box 327, Richland, Washington.

29-30 NEW YORK—Dutchess County Pistol Tournament at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Blvd., Poughkeepsie, New York.

29-30 GEORGIA—.30 Caliber Rifle Tournament at Camp Gordon, Georgia. O. J. Barrett, Mt. Route #48, Augusta, Georgia.

29-30 ARIZONA—Arizona State .30 Caliber Championship at Tucson, Arizona. A. Donald Amesbury, 4065 Montecito Avenue, Tucson, Arizona (Ltd.).

MAY

7 ILLINOIS—1950 Outdoor Rifle Tournament at Springfield, Illinois. George Batson, 720½ South 5th Street, Springfield, Illinois.

6-7 NORTH CAROLINA—North Carolina State Pistol Matches at Durham, North Carolina. Howard F. Basile, East Trinity Avenue and N. W. R. R., Durham, North Carolina.

7 WASHINGTON—Second Annual Apple Blossom Festival Small Bore Rifle Tournament at Wenatchee, Washington. C. L. Wood, P. O. Box 1177, Wenatchee, Washington.

13-14 NEW YORK—Buffalo Pistol Tournament at Buffalo, New York. Franklyn E. Colby, 1105 Genesee Street, Buffalo, New York.

14 FLORIDA—Palmetto Pistol Club Tournament at Coral Gables, Florida. A. T. Kelley, P. O. Box 43, Coral Gables, Florida.

12-13-14 TEXAS—State High Power Championship at El Paso, Texas. Henry H. Hankey, Box 287, Austin, Texas.

14 INDIANA—Registered Smallbore Rifle Tournament at Anderson, Indiana. Mr. B. T. Wheeler, 306 East 31st Street, Anderson, Indiana.

14 TEXAS—Spring Smallbore Rifle Tournament at Austin, Texas. Earlton Smith, 2800 Guadalupe, Austin, Texas.

14 CONNECTICUT—Small Bore Rifle Tournament at Meriden, Connecticut. Gordon Sonner, 51 Button Street, Meriden, Connecticut.

14 PENNSYLVANIA—Small Bore Rifle Tournament at Allentown, Pennsylvania. Allen L. Shiffer, 1313 Linden Street, Bethlehem, Pennsylvania.

20-21 KENTUCKY—Kentucky State Smallbore Rifle Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky (Adv.-Ltd.).

20-21 PENNSYLVANIA—Annual Spring Pistol Tournament at Harrisburg, Pennsylvania. F. H. Wells, 3800 Hillcrest Road, Harrisburg, Pennsylvania.

21 ARIZONA—Arizona State Pistol Championship at Tucson. C. Howard Hathaway, Box 71, Tucson, Arizona.

21 ILLINOIS—Small Bore Rifle Tournament at Libertyville, Illinois. Ed Sachs, 225 West Park Avenue, Libertyville, Illinois.

21 CALIFORNIA—San Francisco Police Monthly Pistol Tournament at San Francisco, California. Emil J. Dutil, San Francisco Police Department, Hall of Justice, San Francisco, California.

21 PENNSYLVANIA—Kennametal Rifle and Pistol Club's Rifle Tournament at Youngstown, Pennsylvania. Charles L. Kabana, 319 Oak Street, Latrobe, Pennsylvania (Adv.).

21 ILLINOIS—First Annual Kickapoo Bowl Smallbore Rifle Tournament at Peoria, Illinois. William S. Coon, 123 Greenleaf Street, Peoria, Illinois (Ltd.).

21 INDIANA—St. Joseph Valley Pistol Tournament at Bristol, Indiana. Mrs. Garnettee R. Horner, 135 South Scott Street, South Bend 2, Indiana.

21 FLORIDA—Florida West Coast League Pistol Match at Tampa, Florida. C. J. Bedingfield, Box 151, Route 5, Tampa, Florida.

27-28 TENNESSEE—Tennessee State Small Bore Tournament at Knoxville, Tennessee. A. W. Nine, 104 Underwood Street, Knoxville, Tennessee.

26-27-28 SOUTH DAKOTA—Annual Black Hills Rifle Tournament at Custer, South Dakota. Walt C. Siewert, Custer, South Dakota.

28 INDIANA—Smallbore Rifle Tournament at Michigan City, Indiana. Waunelia Heise, 316 Warren Building, Michigan City, Indiana.

27-28 TEXAS—Texas State Small Bore Championships at Dallas, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas.

30 PENNSYLVANIA—Memorial Day Rifle Tournament at Kittanning, Pennsylvania. E. W. Cook, 926 Orr Avenue, Kittanning, Pennsylvania.

28 MICHIGAN—Detroit Metropolitan Pistol Tournament at Milford, Michigan. Harry Reeves, 7664 Lamphere, Detroit, Michigan (Adv.).

JUNE

4 ILLINOIS—Small Bore Rifle Tournament at Havana, Illinois. Walter Hahn, R. F. D. #2, Havana, Illinois.

3-4 FLORIDA—Florida State Pistol Matches at Coral Gables, Florida. A. T. Kelley, 12 Alcantarra Avenue, Coral Gables, Florida.

3-4 MASSACHUSETTS—Framingham Spring Smallbore Rifle Tournament at Framingham, Massachusetts. Kent R. Bulfinch, 444 Kelknap Road, Framingham, Massachusetts (Adv.-Ltd.).

3-4 LOUISIANA—Ark-La-Tex Pistol Tournament at Shreveport, Louisiana. J. H. Flournoy, P. O. Box 1098, Shreveport, Louisiana.

2-3-4 MARYLAND—Eleventh Annual Maryland Revolver and Pistol Championships at Sparrows Point, Maryland. Chief Marcus H. Miles, Sparrows Point Police Department, Sparrows Point, Maryland.

4 MICHIGAN—Paw Paw Smallbore Rifle Tournament at Paw Paw, Michigan. Mr. Harry L. Bush, Paw Paw Conservation Club, Paw Paw, Michigan.

4 PENNSYLVANIA—Philadelphia Marksman's Smallbore Rifle Tournament at Cold Point, Pennsylvania. Edwin H. Staples, 220 West Nippon Street, Philadelphia 19, Pennsylvania.

4 CALIFORNIA—Southland Monthly Pistol Matches at San Diego, California. R. S. Pease, 40th and A Streets, San Diego 2, California.

11 ILLINOIS—Wheaton Small Bore Rifle Tournament at Wheaton, Illinois. Byron E. Putman, 814 Ellis Avenue, Wheaton, Illinois.

10-11 KENTUCKY—Kentucky State Pistol Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky (Adv.-Ltd.).

11 PENNSYLVANIA—Fort Hand Small Bore Rifle Tournament at Vandergrift, Pennsylvania. G. W. Rupp, 1029 Hancock Avenue, Vandergrift, Pennsylvania.

11 MARYLAND—Spring Smallbore Rifle Tournament at Baltimore, Maryland. Mr. Joseph N. Schlock, 605 Radnor Avenue, Baltimore, Maryland.

11 MICHIGAN—Flint Pistol Tournament at Flint, Michigan. Kenneth Gilman, 1330 Begole Avenue, Flint, Michigan (Adv.-Ltd.).

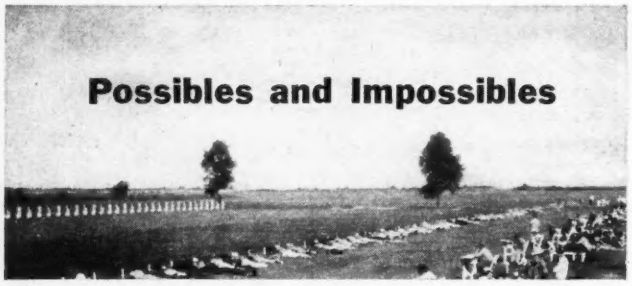
(Continued on page 50)

A PAPER FOR PEOPLE WHO SHOOT

Rifle Rem

VOL. 13, NO. 3 BRIDGEPORT MARCH

Possibles and Impossibles



The time is rapidly approaching when rifle shooters will be getting out on the range again, picking up where they left off last Fall. This brings to mind a thought that will interest club officials who are constantly thinking about bettering their range facilities and would like to start doing something about it now, before the season begins.

One of the foremost gripes of the average small bore shooter is an uncomfortable or otherwise unsatisfactory firing point. It is not generally known that hard-surface firing points are nothing new. In fact, in England, where small bore shooting practically originated, they have always had hard firing points, a feature which offers little or no opportunity for the shooters to gripe about their firing position. Many of the larger ranges in this country have adopted hard-surface firing points and found them to be the perfect solution to the problem of comfortable shooting.

In talking with an oldtimer the other day, who has had much experience with rifle ranges and firing points, he made the frank statement that there is no alternative to any club but to put in such a firing point. It eliminates any dissatisfaction anyone might have due to uneven ground, which is the cause of most of the trouble.

Practically all shooters have a well padded mat to lie on. Their shooting coats are padded, and the old idea that you have to have a sod firing point is no longer an argument. The upkeep is the biggest single factor in favor of a black top or concrete firing point since, after the cost of installation, there is no further expense.

* * *

Here is another thought that will help to keep the boys interested who are not quite certain whether their outfit is perking as it should.

We have recently seen a home-made bench rest. Frankly, it was nothing more or less than a strongly built, heavy table with a chair high enough to enable the shooter to rest his elbows and rifle on two sandbags. The front sandbag stood about 6" above the table-top and weighed about 10 lbs. The rear sandbag, about the same size and weight, furnished a place for the toe of the butt plate. Of course, there is nothing new about this, but having a little time on our hands, we thought it a good opportunity to see what we could do with a group of ten shots at 100 yards. To say that we were agreeably surprised would be putting it mildly.

All you do is get yourself comfortable, place the forearm of the rifle on the front bag and allow the toe of the butt plate to rest on the rear bag, holding the gun steady with the left hand. Then, when the cross-hairs are exactly in the center of the X-ring and very steady, touch her off. When we measured the group and found it was 7/8", we were thoroughly convinced that we had the right combination. We were further convinced when we saw two or three other shooters do practically as well. Why not try it?

* * *

Recently we received a report from an Eastern Club that has had gratifying success with its Junior members, many of whom have "graduated" and are now on college teams or have earned their Expert and Sharpshooter qualifications in the service. Several of the boys' fathers are old-time shooters who got the urge to get back on the firing line again. This inevitably resulted in several "Father-Son" matches with many more planned for the future.

Here's a club that should feel justifiably proud of its successful Junior program, and of its part in aiding and instructing America's youth in the sport of rifle shooting.

"Core-Lokt," "Palma," "Kleanbore" and "Targetmaster" are Reg. U. S. Pat. Off. by Remington Arms Company, Inc.

NEW OUTDOOR EA
EVER FI

SHOOTERS PRAISE NEW 45 WAD CUT
Addition to "Targetmaster" line called "t

. Bridgeport, Conn., March, 1950. Target shooters everywhere praise the new Remington "TARGETMASTER" 45 Wad Cutter cartridge. They like its improved accuracy, reliable functioning and balanced recoil.

All shooters are especially enthusiastic about the superb accuracy of the 45 Wad Cutter bullet at all pistol ranges. This excellent performance is the result of continuous testing at the Remington factory to insure perfect uniformity from box to box.

They punch a clean, full 45 caliber hole that's easy to spot and score.

Of course, experienced ers know you can't beat a ington cartridge, no what the caliber. Fro ever-popular "Kleanbore up to the husky 30-06 sure that "If It's Reming It's Right!"

AROUND OUR CLUB . . . The Coach

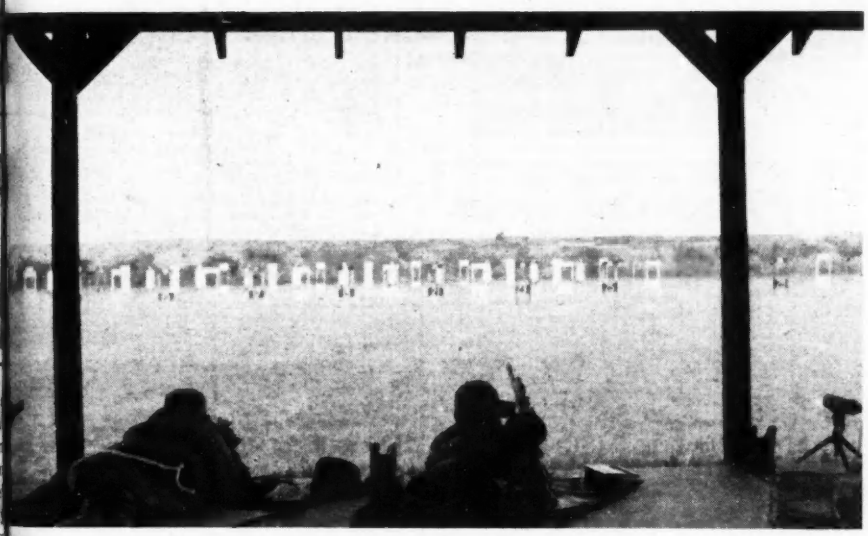
HEY, MAC! ARE YOU COACHIN' A RASSLIN' TEAM OR A RIFLE CLUB?
I CANT TELL IF IT'S THE SECOND LESSON OR THE THIR DEGREE
JUST A FEW MORE HOURS OF THIS AND I'LL LET YOU FIRE SOME LIVE AMMO - AND REMEMBER IF YOU DON'T HURT SOME PLACE THE POSITION IS ALL WRONG!
WHY DON'CHA JUST ME TAKE SOME OF PALMA KLEANBORE MY REMINGTON 37 I'LL SHOOT GOOD SCO WITHOUT ANY SUFFER

Rifle News

WEATHER:
SHOOTERS, GET SET FOR OUTDOOR WARM-UP!

EPORT MARCH, 1950 First Class Reading Matter for Rifle and Pistol Shooters

EASON TO BE BIGGEST
F PISTOL AND RIFLE SHOOTERS



Modern Rifle Range with Covered, Hard Surface Firing Point

'50 SEASON TO TOP '49

Bridgeport, Conn., March, 1950. Blustery March winds whistling round the Rifle News Office mean just one thing. Spring is on the way. And with it a great new outdoor shooting season!

It can't help being a big season. This winter was the biggest we've seen on the circuit. Everywhere we t r a v e l e d, Maine to California, there were more youngsters learning the ropes and more honest-to-goodness enthusiasm than ever before. All signs point to plenty of shootin', plenty of fun.

While you're thinking about Spring you might be looking into covered firing points for your club's range. They're a pleasure to shoot under: dry, clean, sun free. What's more, you can go on shooting in light showers. Why not? A good covered firing point keeps you high and dry.

But even the fanciest club house and range won't build membership unless club members pitch in on recruiting drives. People can't join a club they've never heard about. Elect a go-getting Membership Chairman and Publicity Chairman.

Publicity is one thing many clubs neglect. Keep in mind that sports editors need good local news. And any match or tournament you have is news. Let the paper know. Often a telephone call does the job.

When you get a few nimrods into the club it's a good idea to start them off right with Remington. Show them how "Palma Kleanbore" and "Police Targetmaster" ammunition improves scores. Let them know the big difference a Remington Model 37 can make in any shooters' scores. They'll appreciate the tips.

ROBERTS, VERSATILE UNTING CARTRIDGE

one-rifle hunter needs a lot of qualities ed up in one cartridge. For varmint g he wants a long range cartridge with ajectory and fine accuracy. Comes fall e same rifle and cartridge must have and power enough to assure clean kills ller deer, goat and sheep.

e are big orders for a cartridge, but hooters say 257 Roberts fills them. Not wy for varmint shooting, the cartridge cks wallop enough for bigger game. It en one of the big favorites ever since he year Remington introduced it to the g public.

ilable in 117 grain Soft Point "Core- and 100 grain Mushroom "Core-Lokt" For versatility, stopping power and y, it's one of the best, teamed up with a gton Model 722 rifle.

IT'S HISTORY NOW: A FATHER'S "NO" CREATES FIRST REMINGTON RIFLE

On a beautiful Spring day in the year 1816 young Eliphalet Remington and his blacksmith father were working at their forge in the Ilion Gorge in New York State. The whole valley abounded with game. So it was only natural that young Remington wanted a rifle. Tradition says he asked his father for money to buy one. But the father refused.

This didn't discourage young Remington. He began saving scrap from the forge. And when he'd saved enough he fashioned a rifle from it.

The new rifle was a superb piece of workmanship! Neighbors saw it and ordered Remington rifles for themselves. Before long father and son gave up their smithy and devoted full time to making Remington flint lock rifles!

Today, 134 years later, fine quality arms are still being made in a modern factory not many miles from the original forge.

PAUL ZENNS

Paul Zenns, Chattanooga, Tennessee, says: "Blackinton medals are ageless. Nothing brings back fonder memories than when you look over the awards that you have won in competition; especially the first medal that you received.

* * *

Blackinton Club Service is an old stand-by for club secretaries. Newly elected secretaries should send for the Blackinton trophy catalog.

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See page 95

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TEXAN Scope ($62.50 with Dot)	50.00
4X BEAR CUB Deluxe or Master Scope	55.00
KV WEAVER Scopes, 2¾ to 5X	57.50
HERKNER Mts. ECHO (side)	$12.50 to 17.50
All UNERTL Scopes, Mounts and Bases	
30X DAVIDSON Mark 245 Prismatic Spotter	84.50
M245 Stand, $15.75; extra Eyepieces 15-40X	15.00
WEAVER QD Mts. ¾, 7/8, and 1"	9.75
PACHMAYR 4-gun Handgun Case	19.75
PACHMAYR Deluxe Recoil Pads	3.25
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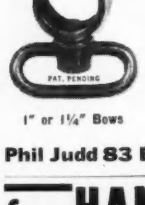

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See page 36, this issue

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(Continued from page 47)

18 INDIANA—Third Annual Rifle Pow-Wow Tournament at Bristol, Indiana. Mrs. Garnette R. Horner, 135 South Scott Street, South Bend, Indiana.

17-18 TEXAS—Texas State Pistol Championship at Austin, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas.

18 MARYLAND—.30 Caliber Tournament at Baltimore, Maryland. Joseph H. Schlick, 605 Radnor Avenue, Baltimore, Maryland.

18 MINNESOTA—Minnesota State Outdoor Rifle Tournament at Minneapolis, Minnesota. John A. Erickson, 3416 35th Avenue South, Minneapolis 6, Minnesota.

17-18 CONNECTICUT—Connecticut State Revolver and Pistol Championship at Rocky Hill, Connecticut. George G. Ledder, P. O. Box 19, Rocky Hill, Connecticut.

18 CALIFORNIA—San Francisco Police Monthly Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, Hall of Justice, San Francisco, California.

18 PENNSYLVANIA—Small Bort Rifle Tournament at Ann Arbor, Michigan. Harrison Schlupe, 1313 Linden Street, Bethlehem, Pennsylvania.

25 MICHIGAN—Ann Arbor Police Pistol Tournament at An Arbor, Michigan. Harrison Schlupe, Police Headquarters, Ann Arbor, Michigan (Adv.-Ltd.).

JULY

2 ILLINOIS—Fourth Annual Smallbore Rifle Tournament at Longview, Illinois. Thelma McDaniel, Longview, Illinois (Ltd.).

8-9 INDIANA—Indiana State Pistol Tournament at Bristol, Indiana. Mrs. Garnette R. Horner, 135 South Scott Street, South Bend 2, Indiana.

8-9 TENNESSEE—Third Annual Tri-State Smallbore Rifle Tournament at Chattanooga. Paul D. Zenns, 808 South Moore Road, Chattanooga, Tennessee.

15 PENNSYLVANIA—Kittanning Night Rifle Tournament at Kittanning, Pennsylvania. E. W. Cook, 926 Orr Avenue, Kittanning, Pennsylvania.

16 INDIANA—Registered Small Bore Rifle Tournament at Anderson, Indiana. B. T. Wheeler, 306 East 31st Street, Anderson, Indiana.

16 FLORIDA—Florida West Coast League Pistol Match at Tampa, Florida. C. J. Bedingfield, Box 151, Route #5, Tampa, Florida.

22-23 MICHIGAN—41st Annual Michigan State .30 Caliber Tournament at Detroit, Michigan. Walter C. Franke, 432 East Lafayette Avenue, Detroit, Michigan.

22-23 MASSACHUSETTS—Framingham Summer Rifle Tournament at Framingham, Massachusetts. Kent R. Bulfinch, 444 Belknap Road, Framingham, Massachusetts.

21-22-23 NEW JERSEY—Twelth Annual State Pistol Championship at Hightstown, New Jersey. Frank Svec, Box 42, Leonia, New Jersey.

23 PENNSYLVANIA—Kennametal Outdoor Rifle Tournament at Youngstown, Pennsylvania. Charles L. Kabana, 319 Oak Street, Latrobe, Pennsylvania.

23 INDIANA—7th Annual Lead Squirter's Small Bore Rifle Tournament at Michigan City, Indiana. Waunelia S. Heise, 316 Warren Bldg., Michigan City, Indiana.

30 PENNSYLVANIA—Fort Hand Small Bore Rifle Tournament at Vandergrift, Pennsylvania. G. W. Rupp, 1029 Hancock Avenue, Vandergrift, Pennsylvania.

29-30 MICHIGAN—Michigan State Pistol Tournament at Milford, Michigan. Walter Lamoria, 135 Kassine Drive, Brighton, Michigan (Adv.-Ltd.).

STOLEN GUNS

Win. Model 70, caliber .270, #73705. Donald Waellhof, RR, Morganville, Kansas.

Mauser Model 98—8mm, Mfg. in Berlin, #6774. Harold N. Nathanson, 426 Rockway Parkway, Brooklyn 12, New York.

Model 70 Win., .257 Roberts, #94602. Thurmond Moore, Box 103, Spur, Texas.

Rem. Mod. 81, 300 Sav. Automatic rifle, #36011. Lewie Keck, 901 Cent. Ave., Great Falls, Montana.

M1917, .30-'06, #589807; US M1903, .30-'06, #889658. W. R. Burnell, 311 N. 26th Ave., E., Duluth 5, Minnesota.

.270 Springfield, #1313348. M. H. Caldwell, 1859 Vinton Ave., Memphis, Tenn.

US .30-'06 Enfield 1917, #231698, CPF stamped in barrel; One .30-'06 Enfield, #330966; One Rem. .22 Score Master new, no serial number. Charles P. Fields, Box 167, Route 1, Troy, Montana.

One .30-'06 Springfield sporter, serial number 236265; Redfield 70 rear sight. Robert Woldt, 590 Badger, Wisconsin.

Dope Bag

NRA TECHNICAL SERVICE

Maj. Gen. J. S. Hatcher,

A. H. Barr • Elmer Keith • M. D. Waite

EDITED BY *Al Barr*

MOSSBERG MODEL 144 MATCH RIFLE

A new .22 long rifle match rifle by Mossberg has been giving excellent groups at 50 and 100 yards, comparing favorably with fine high-priced match rifles. Yet the new Mossberg rifle sells for only $28. It has a 26-inch heavy barrel, a target-type cheek rest on a plain grain stock of excellent dimensions and feel, finger grooves in front of the full pistol grip, and an adjustable handstop for the sling hand. The user has a choice of four fixed but interchangeable front sights in sliding hood. The micro-click adjustable rear peep sight of the Mossberg receiver variety has half-minute graduations which should be one-fourth minute, because the rifle is accurate enough for all beginners and a peach to start a young lad off with in match work. The safety is positioned best of any we have seen on a match rifle, on top of grip, and has red and green off-on indicators. Model 144 has sling swivels and the receiver is grooved for Mossberg's scope mount. Trigger pull is adjustable. The rifle will group inside 1½ inches at 100 yards and ¾ inch at 50 yards with Remington Palma on still days. It will do very fine work for such a low-priced rifle.—ELMER KEITH.

Mossberg's model 144 is an ideal rifle for anyone starting in match shooting. Equipped with click adjustable rear sight, a neatly positioned safety, and a target-type stock, the arm gives excellent groups.

SMITH & WESSON COMBAT MASTERPIECE

This handsome new police revolver is what S&W calls a short action, target grade, holster gun for law enforcement officers. Actually it is a target weapon in every sense of the word, as it is essentially the K-38 Masterpiece with a short barrel and a ramp front sight, which somehow gives it a particularly potent and businesslike look.

Built on the frame of the well-known S&W .38 Military & Police revolver, it is chambered and rifled for the .38 Special caliber, and will take all .38 Special cartridges of commercial manufacture. The highest grade of heat-treated steel is used in this gun, and the strength factor is ample for the most severe service.

The Combat Masterpiece has all the extra features of the Smith & Wesson line of Masterpiece target revolvers. It has a grooved rib on the barrel, and the tangs and trigger are grooved to match. The front sight is mounted on a long graceful ramp, which is serrated to break up light reflections, and the front sight blade is the Baughman Quick Draw type so well suited to holster work. The rear sight is the fine S&W micrometer click target sight, adjustable for both elevation and windage. The gun has a short action and high-speed hammer with broad, deeply-checked cocking spur. The trigger pull is precision adjusted to a smooth, clean let-off of the proper poundage for both the single and the double action operation. There is an anti-backlash adjustment for the trigger which adds to the pleasure of shooting the gun.

Barrel length is four inches, the overall length is 9⅛ inches, and the weight fully loaded 34 ounces.

The Combat Masterpiece is a good-looking gun, and it shoots just as well as it looks. On February 7, Al Barr, Bud Waite, and I all did a bit of range work with this new gun in comparison with Waite's .38 Heavy Masterpiece and my own regular S&W Target, both of which have 6-inch barrels. Surprisingly, there was little to choose between the groups shot with the Combat Masterpiece and the long-barrel models. It is natural to suppose that a longer barrel would give good groups more easily, but that does not seem to be so. The bullet should fly just as straight from either barrel, so the difference, if any, would be in the balance of the gun and the sighting. The sights, being closer together on the short gun, seem a little clearer, and the wobble is less apparent, so one seems to be holding better, and that fact may help the groups by fooling the shooter into thinking he is steadier. Al thought the gun seemed a bit muzzle light, but said it felt mighty good just the same. Bud, when he finished his first target, said: "That's a sweet shootin' little bit of stuff!"

The new Combat Masterpiece, in blue finish, with checkered walnut stocks of the comfortable broad-backed Magna design with S&W monogram, is priced at $65, and will be very popular with the law enforcement officer who wants something superior to the run-of-mill police weapon.—J. S. HATCHER.

S&W Combat Masterpiece, in .38 Special caliber is a businesslike gun with four-inch barrel. Designed for law enforcement officers, it groups as well as long-barrel arms.

SERVICE RIFLE DESIGNATIONS

The DCM advises that there is some confusion regarding the correct nomenclature of the U. S. rifle, caliber .30, model 1903, commonly known as the Springfield. This particular rifle, with its various modifications, has been manufactured at Springfield Arsenal, Rock Island Arsenal, and, during World War II, by Remington and Smith-Corona. All of these rifles, regardless of the arsenal of manufacture, are commonly called Springfields.

The U. S. rifle, model 1917, or Enfield as it is more commonly known, was manufactured during World War I by the Remington Arms Company, by the Winchester Repeating Arms Company, and at Eddystone Arsenal which was operated by Remington Arms.

All of the World War II .30-caliber barrels that we have seen as manufactured by High Standard Corporation are four-groove and

four-land type, and those by Johnson Automatics are the two-groove, two-land type.—M. D. WAITE.

NEW SHOTGUNS

The new Browning over-under 20 bore with selective ejection, selective single trigger, and elevated ventilated rib, performed wonderfully well for us this fall on both pheasants and mallards up to a full 45 yards. Some kills were made at longer ranges. It is an exceptionally well-made over-under of excellent design and balance, equipped with a straight-grain French walnut stock of good shape.

With the present small bag limits and short seasons, many gunners are turning to the double gun as the gentleman's shotgun. For all former users of pump or auto shotguns, the over-under is the logical choice as it gives them the same fit and feel and same deep handhold for the forward hand. They will go right to work with it. The Browning over-under 20 is a gentleman's gun and one we can recommend highly.

The Remington Pump Wingmaster is probably the best pump gun ever designed. Formerly we considered the Remington 17 and the Ithaca 37 as tops but this new gun incorporates more desirable features than either. The breech bolt locks into the barrel extension, eliminating any headspace troubles. The takedown system is much improved and is quickest and simplest of all takedown pump or auto shotguns. It is streamlined, well balanced, and light. To take the Wingmaster apart, one merely unscrews magazine cap, pulls slide handle back, and lifts out barrel and extension. Push rods on both sides of magazine, connecting forearm and breech block, prevent any tendency to cramp, and make for one of the smoothest of all pump actions. The Wingmaster may be had with 26- or 28-inch barrels, plain, matted, or solid rib, or with elevated ventilated ribs at small extra cost. It is a pump shotgun that will take some beating in our opinion.—ELMER KEITH.

LOADING FOR A WILDCAT

I would like to know the loads and velocity for the .257 Improved Ackley, also the Barr .25 Short Magnum.—F. V. COURVOISIER, Yucaipa, California.

Answer by Al Barr: Though I have done very little loading for the Improved Ackley, I did go up to 50 grains of 4350 with 100-grain bullets and had good results. But if I were going to load for that cartridge and had nothing to go on, I would get my loading data in this manner. I would sift a .257 Roberts case level full with, say, No. 4350 powder, and weigh the charge. I would do the same with the Improved Ackley and find out how much greater capacity the Ackley case had. It will probably be around three or four grains. That would mean any .257 Roberts load could be increased proportionately for the greater powder capacity of the Improved case for any bullet weight.

That is the logical way to go about loading for any wildcat on which you have no loading data. I did it for the Improved .30-'06 and it worked out very well indeed. My Improved '06 holds four grains more than the .30-'06, therefore, I use four grains more than recommended '06 loads in the bigger case.

My favorite load in the Short Magnum is 56 grains of 4350 with 100-grain bullets. The velocity is between 3300 and 3400 foot-seconds and you can get nearly that much with the lighter bullets in the Improved .257. If you want to use heavy bullets, then the Magnum case with the greater capacity would be an advantage, but not for the lighter bullets of 100 grains or less.

AVOIDING RICOCHETS

Some leading gun authorities have written magazine articles saying that sometimes a high-power rifle is safer than a .22 long rifle, or reduced lead bullet loads, if the high-power bullets blow up on impact. Is this true?—HOWARD NORBY, Ambrose, North Dakota.

Answer by Al Barr: Yes. In fact, I would not consider using reduced lead bullet loads when I want to avoid ricochets. I would go to the lightest jacketed bullet I could get and then drive it at the highest velocity practical.

MIDRANGE TRAJECTORY

I am at a loss to understand 'midrange trajectory.' For example, the .30-'06 Remington 110-grain mushroom has a midrange trajectory of .4 inch at 100 yards, 2 inches at 200 yards, and 6 inches at 300 yards. Perhaps this has a simple explanation, but I can't get it from guys who have been shooting for years.—EUGENE JENKINS, JR., Bingham City, Utah.

Answer by General Hatcher: In spite of its forward motion, a bullet in flight is constantly dropping due to gravity, and it drops faster and faster until it hits the ground or some other resisting object. For this reason a bullet does not go from muzzle to targets in a straight line, but describes a curve called the trajectory.

To compensate for the dropping in its flight, the bullet has to start out in a direction slightly above the direct line to the target. This is done by adjusting the sights so that when the line of sight is pointing at the target the barrel is pointing slightly above the line of sight. The bullet then flies in a curve from the gun to the target, and the distance the bullet passes above the line of sight at a point halfway to the target is called the midrange trajectory.

IMPROVED BEE LOADS

Can you suggest one or more loads for reloading the .218 Bee, the Improved Bee, and the Mashburn Bee? I intend to use a 45-grain metal-jacketed bullet.—MATTHEW E. HIGHLAND, Orono, Maine.

Answer by Al Barr: The Improved Bee and the Mashburn Bee are one and the same, and you will find that Lovell loads work well in the caliber. I have used seventeen grains or a case full of 4198 with 55-grain bullets. With the 45-grain bullet, you can start with fifteen grains of No. 4227. You could possibly use fourteen to fifteen grains with 50-grain bullets.

HANDY OIL CAN

About the handiest oiling devices I've come across to date for firearm cleaning and lubrication are the squirt cans made by the Plews Oiler Company of Minneapolis, Minn. Two types are available—a nickelplated job with fine detachable nozzle, which I've been using for my government gun cleaner, and a painted type for government oil. These squirters are particularly handy for the cleaner which a person can shoot or squirt down an especially dirty bore.—HARRY WANDRUS, Milwaukee, Wisconsin.

REMINGTON 222

To add to reports on Remington's new rimless 222 cartridge, here is information, from Dope Bag writers, on the behavior of the load in the game field; about velocity, energy, and trajectory figures for the cartridge; and on several good reloads for it.

Ballistics—When we wrote up the new Remington 222 in the February RIFLEMAN we didn't have chronograph results showing velocity loss at the various ranges, so we worked out estimated approximate figures as given on page 34. These were based on an examination of the bullet, which showed that its ballistic coefficient would be in the neighborhood of .20.

Now we are in receipt of actual factory test figures indicating a ballistic coefficient of .18 and velocity loss figures slightly greater than our estimate, as follows:

Range (yards)	Velocity	Energy	Midrange Trajectory
0	3200	1135	
100	2660	785	0.5
200	2170	520	2.5
300	1750	340	7.0

Our estimated figures came close to actual results. Our midrange trajectory was the same at 100 yards, a tenth of an inch less at 200, and only a half-inch less at 300.—J. S. HATCHER.

On Game—I have been killing jack rabbits with the new Remington 222 model 722. It's a grand cartridge of about the same power as the Lovell, a 50-grain soft-point spitzer at 3200 feet. I believe it will well answer the demands of fully 95 percent of the varmint shooters.

The first groups from the rifle were lousy but, as the bore took on a bullet polish, groups tightened up until it was doing from ¾ inch to 1¼ inches at 100 yards with bench rest. I believe it will do better when fitted with sling swivels and shot prone with sling. Test rifle incorporates the K-6 Weaver in Redfield Junior mounts and places ocular lens much too far to the rear for anything like comfort in any position for us. I will have to put another scope on the rifle, or else a different mount, to get ocular lens out of my eye for comfort.

Penetration has so far been complete on jacks and hawks of large duck variety. Some bullets have ricocheted away after hitting the ground or else rocks were thrown in the air as I heard them howl away. Expansion is very good and reliable but the bullet does not explode on impact as so many Hornet and Swift bullets have done for us. Game is well shot up, but not blown up, indicating a thicker, tougher jacket than usual. This looks to me, at this sitting, like the ideal small varmint cartridge.

Trajectory is only 2.5 inches over a 200-yard range and with a scope-sighted rifle this is further reduced so that an experienced rifleman can sight this rifle for 200 yards, hold a couple inches low at around the 100-yard mark, and be sure of killing hits on varmint to about 200 yards.

That grand old man, Pop Niedner, once wrote me that whenever velocity increased over about 3000 to 3200 feet, then we should add bullet weight rather than more velocity and after all my experience with high-velocity rifles, I concur 100 percent with his opinion, either in pest rifles or in long-range big-game rifles.—ELMER KEITH.

Loads—Within a month after the announcement of the 222 Remington cartridge, we have developed several good handloads for it. Too, The Hollywood Gun Shop, 6032 Hollywood Blvd., Hollywood, California, is tooled up to supply reloading dies for this caliber, and we have received one of the first sets made.

Commercial ammunition for the 222 Remington is loaded with a fine-grain powder similar to DuPont No. 4227 or Hercules No. 2400. Preferring a slightly slower-burning powder that would nearly fill the cartridge case, we started out with IMR 4198 powder and it worked very well. For the experimental loads we loaded as much as 21.5 grains of No. 4198 powder with Remington 6½ primers and 45-grain Sierra bullets. While the load did not seem excessive, it was not as accurate as 20.5 grains of the same powder. The heaviest charge used with 50-grain Sierra bullets was 20.7 grains of No. 4198, and the same charge was tried with 55-grain Sierra bullets. However, improved accuracy was obtained by reducing the loads to 19 to 19.5 grains with 55-grain bullets and 19.5 to 20 grains with the 50 grain. With the exception of an occasional flier, these loads will shoot regularly into less than a minute of angle at 100 and 200 yards. We consider that very fine accuracy for a light sporting rifle which weighs only eight pounds, nine ounces, with K6 Weaver scope and Redfield Junior mount.

With the rifle zeroed one inch above aim at 100 yards, the 55-grain bullet with 20 grains of No. 4198 is less than one inch below aim at 200 yards. With 20 grains and the 50-grain bullet zeroed one inch above at 100, zero at 200 was exactly one inch below aim. With 19.5 grains and the 55-grain Sierra bullet zeroed one inch above at 100 yards, impact was 1½ inches low at 200 yards.

The most consistently accurate combination in the one rifle was the 50-grain Sierra bullet with 19.7 to 20 grains of 4198. All loads with this combination grouped inside one minute of angle at 100 and 200 yards, with the smallest five-shot group measuring exactly .70 inch. This kind of accuracy was obtained only after a rebedding job.—A. H. BARR.

SPLIT CARTRIDGE CASES

I just received a .219 Improved Zipper on a Stevens 44½ action. Upon firing the rifle, I found that two of the first four cases split. Later I fired seven more rounds and one more case split. There was no gas leak in any case. I was using Remington factory Zipper ammo. I should like to know if I must expect split cases in using factory ammo in an Improved chamber?—A. Z. FREEMAN, Black Mountain, North Carolina.

Answer by Al Barr: When cartridge cases split at the shoulder, especially factory loads in an Improved chamber, it is a sign the brass does not stretch enough to form the new case. The brass is probably rather hard. You might try another make of ammunition, but some of the cases may split anyway.

CHAFFEE-REECE CARBINE

I have a .45-70 caliber bolt-action rifle with two locking lugs, 29-inch round barrel, 6-round magazine tube and buttstock, and the only markings are "Springfield Model 1884." What do I have?—DAVID STRATTON, Westfield, N. Y.

Answer by General Hatcher: You have the Chaffee-Reece breechloader, one of the various guns that the Army was experimenting with around sixty years ago. A few of these were made and issued.

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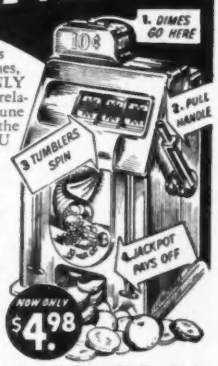

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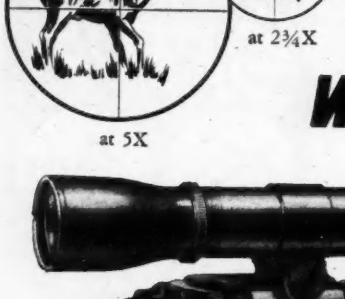

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CLAMPS FOR STOCK LAMINATION

For those who are interested in gluing laminated stock blanks, this should be of interest. I have found a method of holding the wood tightly which is much better than using clamps and, incidentally, it is also much cheaper. All that is needed is an old inner tube, which can be obtained for nothing at almost any service station or garage.

Take the tube and cut it into a continuous strip as wide as you can stretch tight. Then, wrap it around the stock as tightly as you can. The amount that you wrap depends on how much patience you have. If you wrap until the stock is covered, it should be sufficient, especially if the rubber is stretched tightly. When the glue dries, you will have a glue job superior to any that could have been done with clamps, because there is more pressure exerted and it is placed evenly along the length of the stock. Wrapping with rubber tube is also a good method to use in fastening inlays to your stocks. They will not only stick better, but the inlays can be put successfully where it would be practically impossible with clamps. — LEWIS J. FISH, Logan, Utah.

SHOTGUN PRESSURES

A friend and I are having a vicious but friendly argument over the pump shotgun shooting harder than the automatic shotgun. With all conditions as to gauge, barrel length, choke, and shell loading being equal, we would like to know the facts surrounding this controversy.—R. R. BENSON, Topeka, Kansas.

Answer by M. D. Waite: In view of the fact that both the automatic shotgun and the pump shotgun are fired from a closed breech, there is no difference in the muzzle velocity of the shot charge, all other things being equal. In other words, in both systems the shot charge clears the barrel before the breech has begun to unlock. There is no loss of gas pressure in either system other than normal loss caused by leakage back of the case.

In a gas-operated rifle, a very small amount of gas is tapped off the barrel in order to actuate a piston which in turn actuates the breech mechanism. Such a loss of gas pressure is, however, so negligible that it can be ignored.

GERMAN ULTRA PISTOL

I have never seen a photo of the German Ultra pistol in your magazine. Could you print one and any details sometime? We have no knowledge of it here, only that such a pistol was made during the war.—IAN F. CLARK, Aberdeen, Scotland.

Answer by General Hatcher: The Ultra pistol was of the PP variety employing a special 9-mm. cartridge—a cross between the .38 and 9-mm. Parabellum. A quantity of ammunition for it was made by R. W. S., but whether the pistols were ever produced or not we don't know. We understand they were to have been exclusively for the Luftwaffe.

We do not have a picture of the Ultra pistol. It was one of those wartime experimental Walthers, and though we have tried to get information on it, we have succeeded in getting only a few details. For that information we are indebted to Mr. Fred A. Datig, Jr., of Aberdeen Proving Ground, Maryland, who has made an extensive study of foreign weapons.

.41 SWISS

I have an old .41 Swiss six-shot rimfire and am using the Remington Kleanbore 300-grain lead bullet. I wonder if this gun could be made over into a center fire, and loading tools and bullet mold be made for it? Who could do this job and do it right? Is there a .41 center fire?—W. F. TURNER, Turlock, California.

Answer by Elmer Keith: I would certainly not advise spending a cent to try to remodel that old .41 Swiss rimfire service rifle, as it cannot be made into anything worthwhile. Better use it just as is and grab yourself a lot of ammo at once, as I don't think it will be made again. The .41 Swiss has relatively little value as thousands were sold by Bannerman and others in this country.

METHODS OF BEDDING

Could you help me in the know-how and procedure of bedding a rifle. I have a .22 Hornet which groups far beyond what can be considered anywhere near accurate, and I feel sure its inaccuracy is due to the bedding of the rifle.—CHARLES V. PHILLIPS, Ilion, New York.

Answer by M. D. Waite: There are several systems of bedding which can be used to bring out the inherent accuracy of a fine rifle. One is to relieve the barrel up to within about two inches of the fore-end tip so that it does not touch the wood. A bearing point of approximately two inches long is prepared at the fore-end tip either by inletting or through the use of Plastic Wood, or even by inserting paper shims, so that it takes approximately three to five pounds to pull the barrel away from the wood. The bearing point should be close fitting and the whole surface of the wood should touch the barrel with a smooth fit.

Another system of bedding is to leave the barrel full floating throughout its entire length. Another system is to center bed it, which will consist of full floating the barrel except for a bearing point about two inches long located in the center of the forearm groove.

Sometimes it is found necessary to tie the barrel to the wooden stock by means of a band which can be located at any point along the barrel.

NO GARANDS FOR SALE

I have noticed some ads in the RIFLEMAN of Garand rifles for sale and have also noticed that these ads contain the statement that the guns were purchased legally from the Government.

Are Garand rifles sold by the Government to all NRA members? If not, why are certain parties privileged to purchase them while others are not?—VICTOR S. SWENSON, Ettrick, Wisconsin.

Answer by General Hatcher: During the latter part of the war Garand rifles were sold to some members of the military forces stationed overseas, which was permitted by regulations. However, as soon as the Ordnance Department in Washington found out that was going on, orders were issued to discontinue such sales, even to military personnel. At the present time none are being sold to anybody.

It is possible that sales on Garand rifles will start sometime in the future, but no decision on this point has been made by the Army. If such sales do start, there will be full information in the RIFLEMAN.

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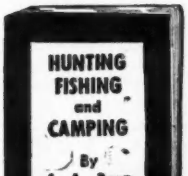

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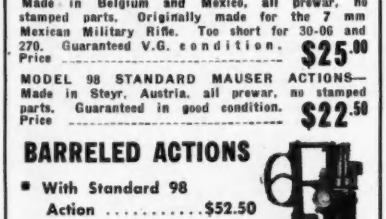

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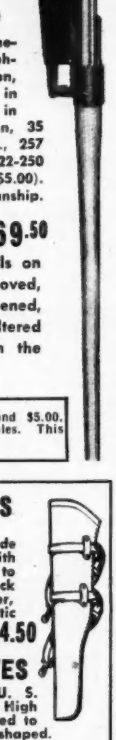

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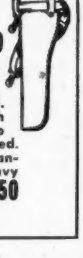

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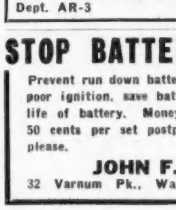

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8 MM. IN 7.7 JAP

There's a gunsmith in Michigan who converts Jap 7.7 to 8 mm. by polishing out the neck so it will take an 8-mm. cartridge. He says he has made several that way. He says, to convert it yourself, just polish the neck of the cartridge down so it will go in the chamber.—ELWYN SPRAGUE, Otsego, Michigan.

Answer by Al Barr: If I were you, I would take it on myself to warn everyone owning those 7.7 Jap rifles never to fire 8-mm. ammunition in them! If the owner only knew how much larger the bullet of the 8-mm. cartridge is than the 7.7, he could soon realize that very dangerous pressure exists when such loads are fired in the smaller diameter barrel of the Jap rifle. I certainly would not shoot such a combination.

NOSLER GAME BULLETS

Since Nosler modified the jacket to give more core in both point and heel of his bullet, less solid metal between the two cores, and more thinning of point jacket, at our suggestion, we believe he has the most modern of all big-game spitzers for ultra-high-velocity modern rifles. First samples in 150-grain were not as accurate as they should be, but later improved 180 grain shot very well and Nosler is still further improving the accuracy of his product. The bullet will expand or blow its point on impact but the solid jacketed rear half cannot expand nor disintegrate, and the copper or gilding metal front section curls back over the rear half to form the perfect mushroom.

It will expand at any reasonable velocity, yet the rear half, or two-thirds of its weight, will carry on through to the absolute limit of its possible penetration. It is the finest approach we have seen to the needs of high-velocity rifles. Cost of the bullets are ten cents each, and well worth it for game shooting. Thirty-caliber bullets in 180 grain worked exceptionally well on both elk and deer this fall. It is the best bullet we have seen in that weight for the .300 Magnum and similar high-velocity rifles. Accuracy has been much improved by the thinning of jacket over the rear core and will be further improved they say.—ELMER KEITH.

JAP RIFLE VALUES

I am a veteran of the Pacific campaigns and am interested in selling a Japanese rifle which was given to me as a souvenir when I left Japan. The rifle was new when I obtained it and I have never fired it. I oiled it before putting it away so it is still in very good condition.—HOWARD H. LINDSAY, Gastonia, North Carolina.

Answer by M. D. Waite: Today good Jap rifles of both 6.5-mm. and 7.7-mm. caliber are selling for around twelve to fifteen dollars, depending upon condition. It is possible to obtain custom-loaded ammunition for them but at quite high prices as compared with commercial ammunition. The principal interest in Japanese rifles today consists of converting them to handle some readily obtainable cartridge such as the 6.5-mm. Mannlicher Schoenauer, 6.5x57-mm. Mauser, or the .257 Roberts adapted to handle 6.5-mm. bullets. Many people are rechambering the 7.7-mm. rifle to handle the .300 Savage. Jap rifles are generally priced very low but there is some demand for them when converted to handle a readily obtainable cartridge.

NEW PRODUCTS

Adjustable trigger for the 1917 Enfield rifle is being made by M. H. Canjar, 4476 Pennsylvania Street, Denver 16, Colorado, well-known for custom-built set-triggers. The new 17-3, selling for $15.00, can be adjusted down to a very fine, clean, safe pull. When properly adjusted, there is practically no perceptible trigger movement. We had no trouble fitting one of these triggers to the 1917 rifle. Another useful item featured by Canjar is a dependable Enfield speed lock, which, when combined with the 17-3, makes the whole outfit worth $20.00.

Heavy-duty shotgun cases of the English trunk type, made of heavy plywood with solid brass fittings, are a new product of Western Sierra Company, Lone Pine, California. Lightweight and strong, both Model 1, measuring 3½ x 8 x 31½ inches, and Model 2, measuring 3 x 8 x 34½ inches, are suitable for accommodating most any type shotgun including pump guns. The trunk is covered with a weatherproof, scuff-resistant, plastic leatherette. The interior is lined with green felt. A similar quality deluxe rifle case and four-gun pistol case are manufactured by the same firm.

Cartridge case length gauge made of thin stainless steel is being manufactured by Hi-Craft Gauges, Box 301, Simsbury, Connecticut. It is used to check on the correct length of a cartridge case, and one gauge will be correct for only one cartridge. The price is $1.25 per caliber, and for fifty cents additional a gauge will be made so that the overall length of a loaded cartridge may be checked. The case gauge can be recommended for those who have no means for checking on case length, which is very important with heavy loads.

Gun cases of Duran plastic and others of canvas material, with linings of sheepskin down or a satin-like finish cloth and full-length zippers, are the products of Canvas Products Corporation, 19 E. McWilliams Street, Fond Du Lac, Wis. The cases are richly colored and quite attractive. The dozen samples had leather suitcase-type handles but none were equipped with shoulder straps though all models can be equipped with special detachable web slings on order. Quotations on these cases can be obtained direct from the manufacturers or through Badger Shooters Supply, Owen, Wisconsin. Prices range from $4.95 for the water-repellent suede model up to $13.75 for the Duran plastic model with thick woven fleece lining.

Gun Guard Oil is a new polarized product by the Mitchell-Bradford Chemical Company, 2446 Main Street, Stratford, Connecticut, which is packaged in a handy and useful dispenser. Put up under pressure in a gas-filled container holding twelve ounces, a thin mist-like spray of Gun Guard is deposited on surfaces which are to be protected against rust by merely pressing the plastic top of the container. Already we have found the spray the best method of applying oil to protect 70 guns in one rack and more in another. The ease with which Gun Guard is applied eliminates one reason for rusty guns, reloading

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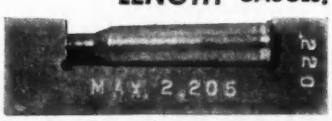

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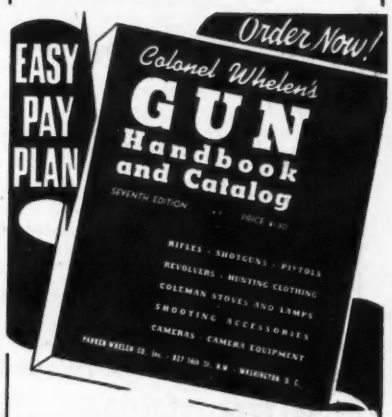

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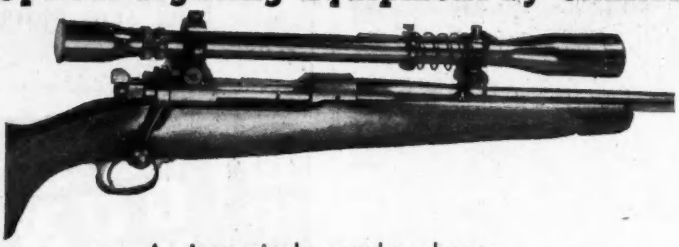

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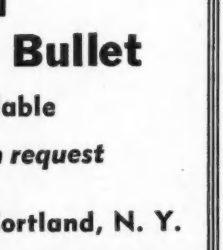

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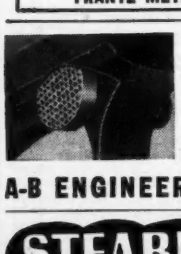

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tools, and shop equipment. Even the entire bore, especially of the larger caliber rifles and shotgun bores, of a gun can be sprayed with it.

Gun Guard Oil leaves a tough, lubricating film when applied to steel. A twelve-ounce container costs $1.89.

Moderate-priced sights, both receiver and ramp, are being manufactured by the Star Gunsight Co., Box 112, Stroudsburg, Pennsylvania. Practical and sturdy, the receiver sights are adjusted for windage and elevation with a screwdriver. They are intended for use on hunting rifles, where very frequent adjustments are unnecessary. The sights are small and compact, and list at only $5.25 complete with the ramp, minus bead or post.

Leather goods of excellent quality and workmanship by A. E. Nelson, 1770 N. Capital Street, Salem, Oregon, include different types of belt holsters, a rugged medium-priced spring shoulder holster, a leather shell box for four boxes or one hundred shotgun shells, and a rugged cartridge belt which holds thirty cartridges. All items are made of good quality leather, and many are nicely decorated. Fancy saddle scabbards are a Nelson specialty.

GUNSMITH TRADE DOPE

Dill Manufacturing Company, 700 E. 82 Street, Cleveland, Ohio, makes a handy little device, selling for $1.25, called the Pres-To Oiler. It is shaped like a fountain pen and has a spring plunger point which will deliver a fraction of a drop or more at the spot it is needed.

Arizona Bullet Co., Inc., 144 W. Flores Street, Tucson, Arizona, has been receiving excellent reports on their ABC bullets. We have tried them in .30 caliber, in both 150- and 180-grain weights, and find them accurate for hunting-type bullets. Others have reported fine accuracy using the 180-grain .30-caliber bullet with 49 grains of 4064 powder and Remington 9½ primers. We have had good accuracy with the 180-grain weight in our Improved .30-'06. Our load is 55 grains of 4064. These hunting bullets are the spitzer type with a noticeable amount of lead exposed at the point.

Willig Engineering & Machine Co., Midland, Texas, is now manufacturing the Butts' pedestal that has been illustrated several times in the RIFLEMAN. It consists of a heavy cast-iron base, with a worm screw adjustable for height, topped by a heavy-duty metal support for the forearm of a rifle. The top is made wide for use of the conventional sandbag on which the forearm of the rifle rests. The pedestal is based on the design of Manley Butts of Bradford, Pennsylvania, a well-known bench-rest shooter. Postpaid, the price is $15.00. For bench-rest and group shooting we certainly would not want to be without a pedestal of this type.

Sam I. Yasho, 1303 Simonton Street, Key West, Florida, reports success in many instances for his patented precision barrel stabilizer for match rifles. The stabilizer is a small gadget which is fastened to the fore-end of a rifle stock, which must be cut off at right angles to the barrel groove. In the stabilizer two adjusting screws, on which the barrel rests after it is made free floating

in the stock, come up at about 45-degree angle. A barrel band located back of the stabilizer is frequently recommended for use with the stabilizer. Several bench-rest shooters have reported improved accuracy when using this item. The purpose of the stabilizer is to help control barrel vibration in an effort to improve accuracy. We have been using a homemade gadget similar to this stabilizer which has been very successful.

W. H. Sizemore, a custom gunstocker, has moved to 1330 Adams Avenue, Huntington, West Virginia. In addition to doing stock work, Mr. Sizemore makes gun cabinets.

Kenneth L. Hooper, Eureka Gun Shop, Eureka, Montana, writes that the Post Office in Eureka burned to the ground early in the morning of February 5. He asks those who might have sent work to him or who might have written recently to write again in order that he might check on the matter. There were no outgoing rifles at the Post Office when it burned, he adds.

Chester Brandon, Box 126, Montrose, California, is again manufacturing the Brandon 70-22 spotting scope, which was praised highly in the Dope Bag for June 1948, after being forced to withdraw from the scope business because of other work

Mr. Brandon visited us in Washington to tell us that he has a large number of scopes ready for delivery. The Brandon scope is light and is easy to stow in the kit as the eyepiece is not offset from the diameter of the main tube.

Mr. Brandon is Chief Design Engineer for Librascope, Inc. He has worked on designs of submarine periscopes, fire control equipment and makes astronomical telescopes as a private undertaking.

Frank Mittermier, 3577 E. Tremont Avenue, New York 61, N. Y., is marketing a selected set of seven tiny woodworking files similar to regular metal-working needle files. These tiny rasps have proven to be extremely useful for working in close corners and there is a shape for almost every desired purpose. They cut very fast and are extremely useful when working on gunstocks.

Warner's Sales and Service, South Madison, Port Clinton, Ohio, is a new shop that has been opened by E. L. Warner, who has been associated with the Lake Erie Sports, Inc., and has been working with Bob Owen in stockmaking for the past two years.

Thomas Gun Shop, formerly located at Sand Point, Idaho, has moved to 960 Resort Street South, Baker, Oregon. Mr. Thomas, maker of that very good plastic stock finish, will be working with Anthony Guymon, a well-known stockmaker. They will handle any remodeling job.

Original Sight-Exchange, Paoli, Pennsylvania, has prepared a handy metallic sight chart which will be very useful to gunsmiths, sporting goods stores, firearms dealers, or anyone installing iron sights on a firearm. The handy elevation correction chart helps to give the height of front sight necessary for installation with a rear sight in its lowest position. The charts are available free of charge to any dealer having a regular business letterhead. Others may purchase them at twenty-five cents in stamps to cover cost of postage and handling.

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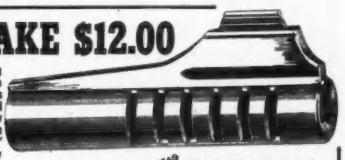

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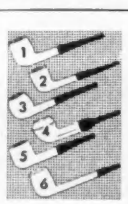

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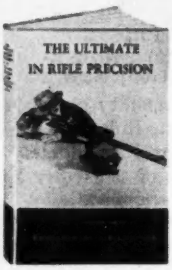

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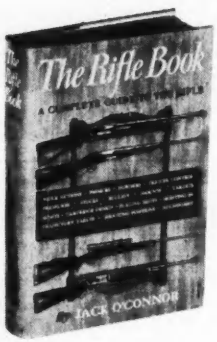
By Jack O'Connor



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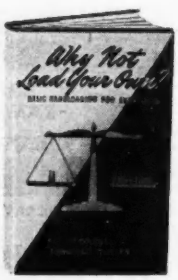

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Dayton-Traister Company, 34 S. E. 66 Avenue, Portland, Oregon, now makes a Tru-Feed kit for Enfield rifles. Consisting of three small thin metal units which fit readily inside the Enfield magazine, the Tru-Feed kit facilitates feeding cartridges from the magazine to the chamber. The Enfield has never handled blunt-nosed bullets satisfactorily without some alterations to the magazine. The new Tru-Feed adds filler plates to the magazine to guide the cartridge without jamming. It works exceptionally well, except that blown-out, straight-sided cases such as the Improved Ackley .30-'06 do not feed too well.

Harold E. MacFarland is not accepting any more work at his Loman, Minnesota address. During June, MacFarland will move his shop to 741 Copper Basin Road, Prescott, Arizona.

Ed Agramonte, 8 Calvert Street, Harrison, New York, dealer in antiques and modern firearms, has issued his 1950 gun and sports catalog covering standard brands of sporting goods equipment. Listed with the catalog is a very wide selection of secondhand antique and modern guns at reasonable prices.

Richard Stam, 545 Antlers Drive, Rochester 18, New York, can again supply his popular leather-covered adjustable cheek rest and comb raiser which is fastened on a stock by means of snap fasteners. We have always found the Stam cheek rest quite useful when using scope sights on low comb sporting stocks and on military stocks.

BOOK REVIEWS

FOR THE COLLECTOR

Ray Riling of Philadelphia lists two new items which will be of primary interest to the gun collector. The more elaborate of these is a catalog of the firearms collection in the Museum of Applied Science of Victoria, at Melbourne. Though cloth bound, it reminds one of the old United States Cartridge Company's arms collection catalog. Its 161 pages describe in detail some 500 pistols and long guns, mainly percussion and cartridge types. A surprising number are American. All are illustrated on the fourteen plates; unfortunately, the size of individual illustrations is small. On one plate, over 100 firearms are shown!

The second is a paper-bound catalog of an exhibition of armor and arms from the national collections of Austria, shown at the Tower of London from May to September of last year. Some of these same pieces were more recently seen during the record-breaking exhibition of Austrian art treasures at the National Gallery of Art in Washington, D. C. The catalog, which describes only the finest of the Austrian arms and armor, is illustrated with 24 full-page plates.

(Descriptive Catalogue of the Collection of Firearms in the Museum of Applied Science of Victoria, by E. H. Penrose, Melbourne, 1949. 161 pages, 14 plates, cloth bound, $2.00.

Exhibition of Armour of Kings and Captains, Tower of London, 2nd ed. 37 pages, 24 plates, paper bound, $1.00.

Both available from Ray Riling, 6844 Gorsten Street, Philadelphia 19, Pennsylvania.)

THE ARMS CHEST

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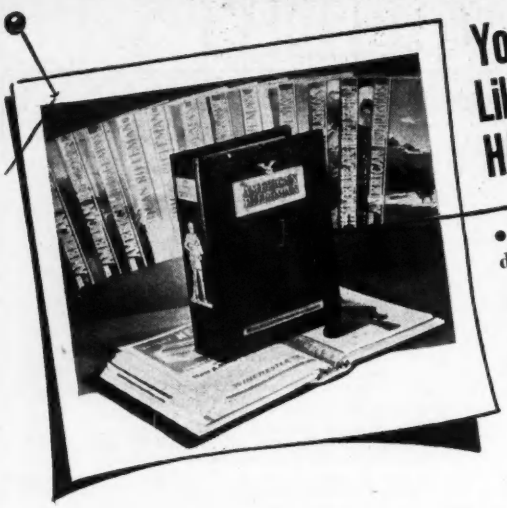

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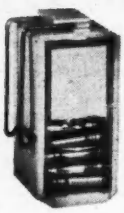

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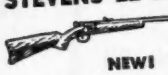

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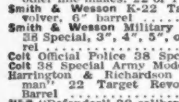

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H&R "Reising" 22 Automatic Rifle	34.95
Mossberg 22 Repeating Rifle with 4 power Mossberg Scope	19.95
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Winchester 63 Automatic 22	63.50
Remington 550 Automatic 22	63.50
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Marlin 30/30 Model 336SC	61.45
Marlin 30/30 Model 336A	72.55
Winchester 94, 30/30, 32 Special, 25/35	62.45
Winchester 43, 22 Hornet, 25/20, 32/20	54.95
Winchester 70—All calibers	109.50
Remington 721—30/06 or 270	79.95
Remington 722—300 or 257	74.95
Remington 141A—35 cal.—$164.95; 81A—300 caliber	129.95
Savage 99EG 250/3000 or 300	96.45

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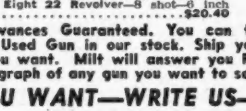

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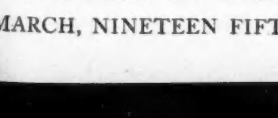

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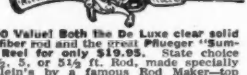

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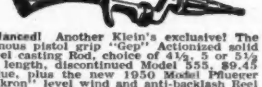

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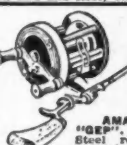

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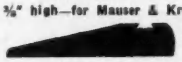

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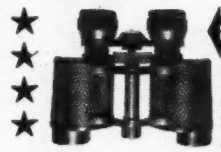

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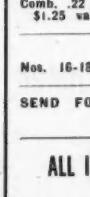

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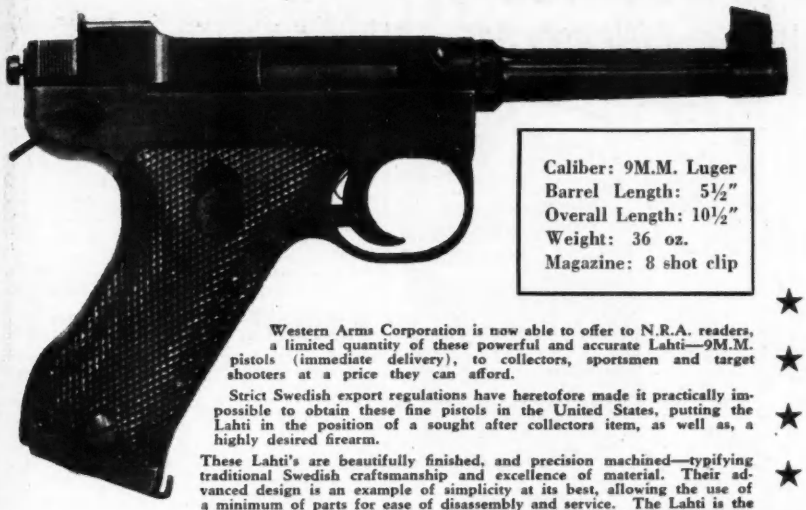

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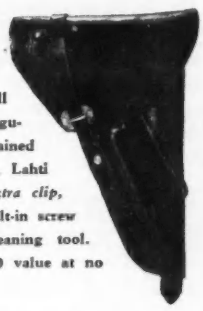

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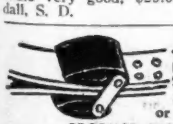

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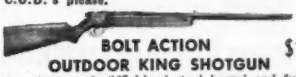

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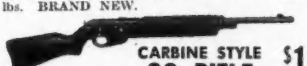

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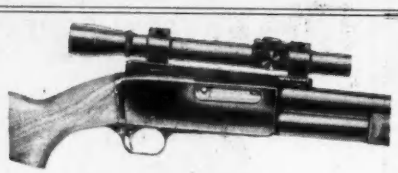

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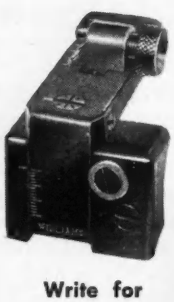

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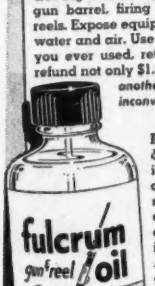

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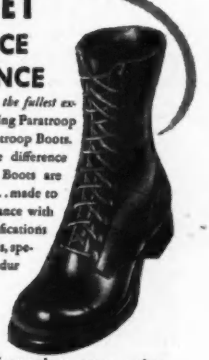

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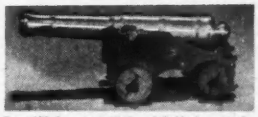

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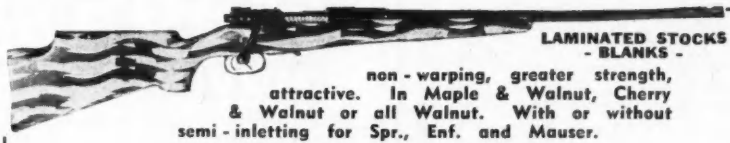

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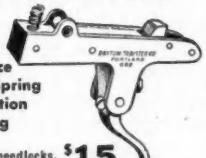

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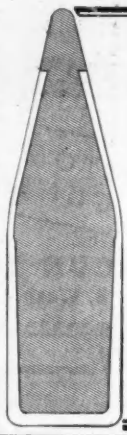

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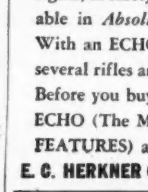

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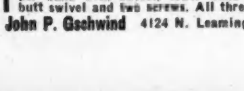

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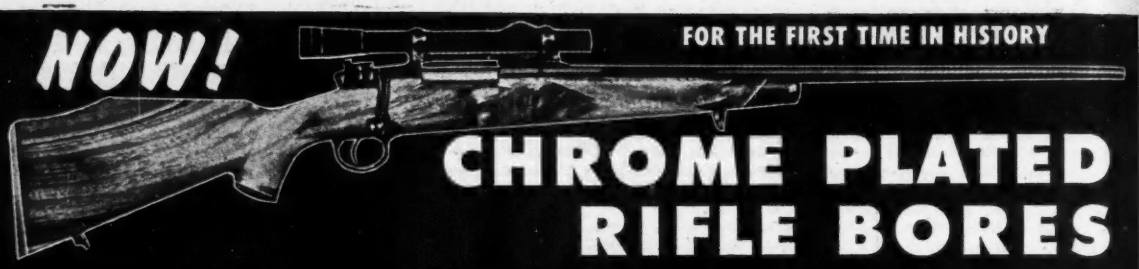

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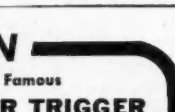

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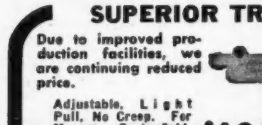

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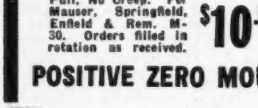

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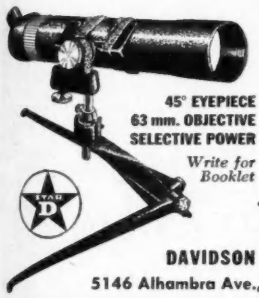

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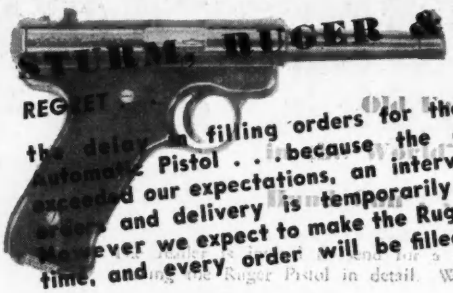

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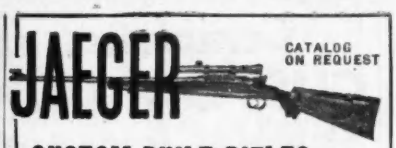

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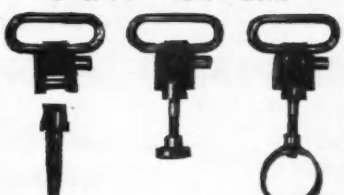

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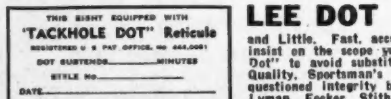

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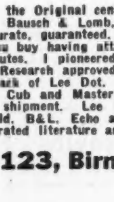

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Registered Patent Attorney

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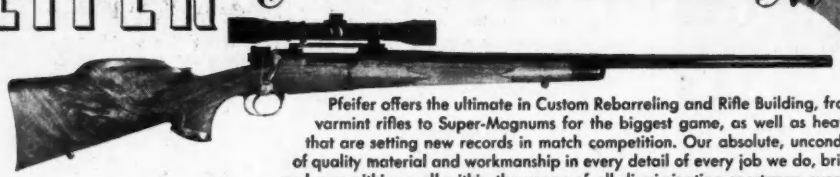
PFEIFER *Custom* RIFLE OF THE *Month...*



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TWO SIGHTS FOR $5.25

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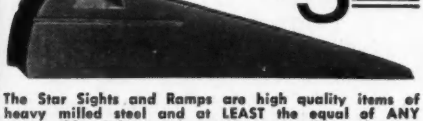

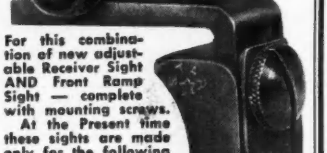

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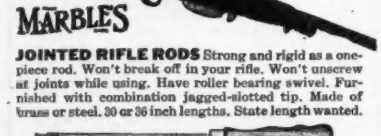

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NEW (OFFICIAL N.R.A. GAUGES)

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WANTED—SINGLE ACTION COLTS IN wholesale quantities. Greenwood and Company, Washington, Indiana.

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38 W.C.F. COLT; SHORT BARREL SMITH & Wesson Hammerless 44 Smith & Wesson Special with 4 or 5 inch barrel; First War Commercial 45 Automatic; 44 Smith & Wesson Special Target; Fancy Pocket Revolvers or Automatic; personal interviews by appointment only. Vincent c/o Astore Building, West Stockbridge, Massachusetts.

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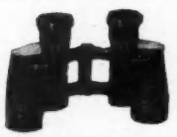

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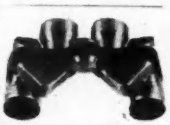

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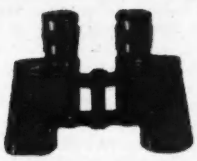

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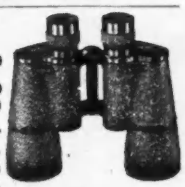

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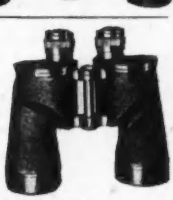

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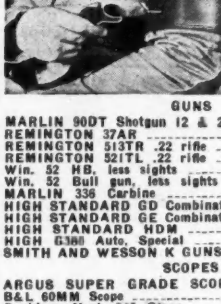

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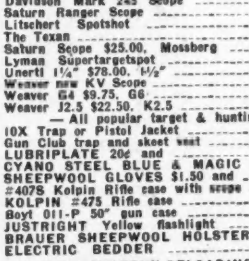

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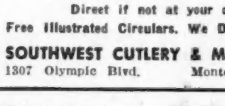

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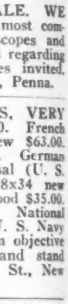

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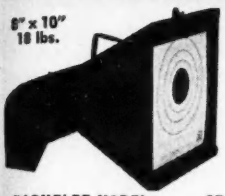

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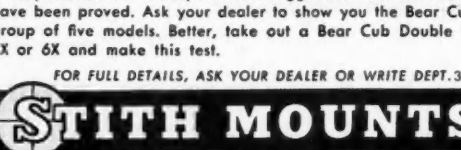

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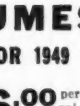

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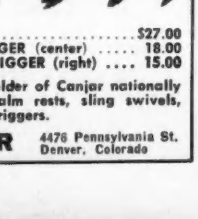

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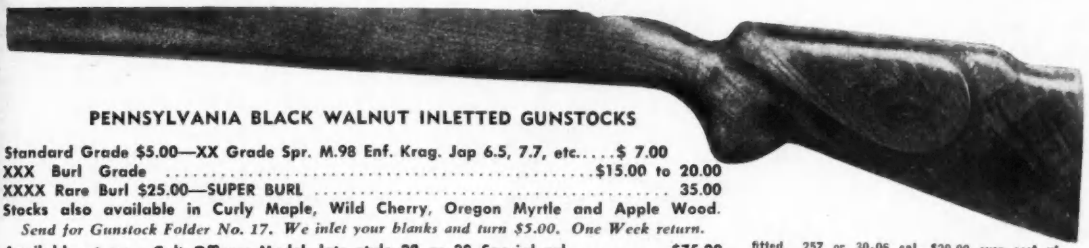

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XXX Burl Grade .....$15.00 to 20.00
XXXX Rare Burl $25.00—SUPER BURL 35.00
Stocks also available in Curly Maple, Wild Cherry, Oregon Myrtle and Apple Wood.

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F-N ACTIONS, Lat Style, complete $42.50

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*30.06 M.C. late date	per 100	6.00
*45 C.A. M.C. late date	per 100	4.00
30.06 blanks	per 100	5.00

* Lots of 500 or more, 10% less.

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Unertl Hawk Scope, Coated 4X	52.00
Unertl Condor Scope, Coated 6X	66.00
Lyman Targetspot, SUPER, 12x15, 20X	90.00
Unertl Falcon, 2¾X	48.00
Unertl Varminter, 6X, 8X, 10X	75.00
Lyman Alaskan, 2½X	60.00
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B & L Binoculars, 6x30, 7x35	186.00
Texan Scopes	50.00
B&L 2½ x 4X variable	80.00
B&L Mounts W-70 Spr. M-98 Rem 721 FN	25.00

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219 Zipper Western	per 100	$7.00
Western 32, Special	per 100	5.00
.257, .250-3000 Winchester, 220 Swift	per 100	7.50
30-40 or 30-06 Remington—Win., 8 mm.	per 100	8.00
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25 cal. Sierra 87 gr. $3.75 per 100; 117 gr. per 100		4.00

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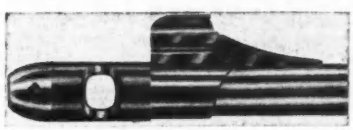

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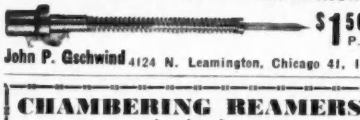

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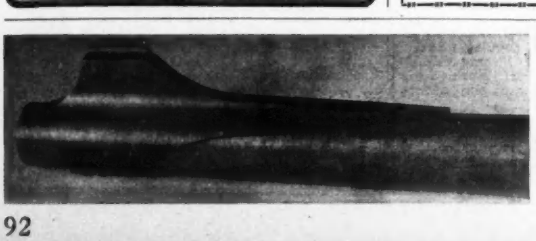

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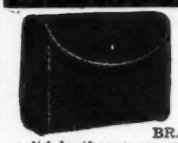

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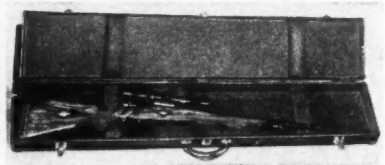

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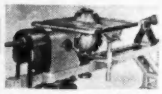

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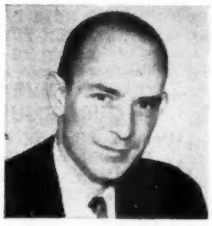

Understudy to Barr since he came to the NRA a year and a half ago. Guns became his hobby at the age of eight—a hobby intensified by five years with Uncle Sam's GI's. Team shooter at Washington's Central High; at the Universities of Maryland and Illinois; representing the 6th Corps Area at Perry 1939. Collector and gunsmith. No specialist—Waite has a personal liking for the .30 and benchrest games.

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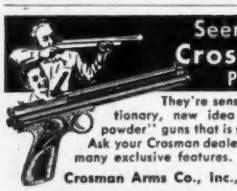

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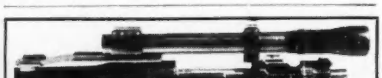

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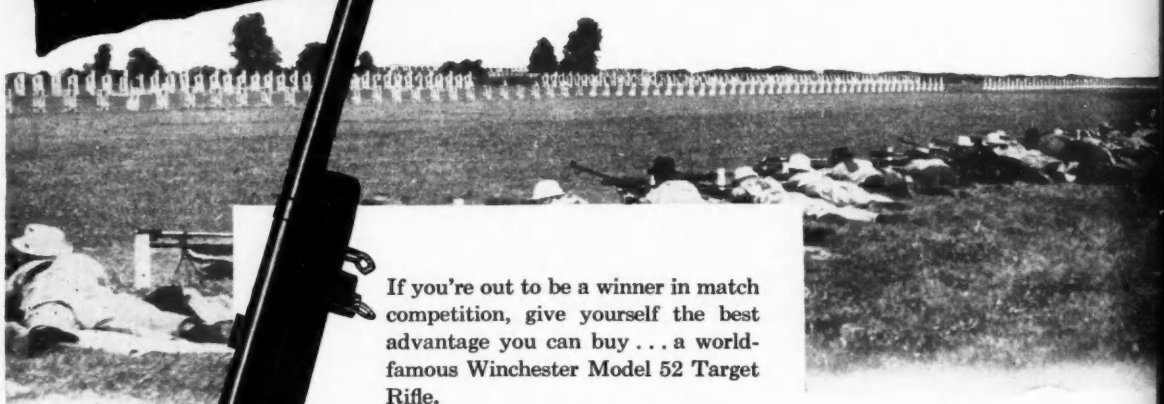

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